

IUID Scorecard Briefing

Mr. David Ahern

OSD/AT&L, Portfolio Systems
Acquisition

January 10, 2011

Agenda

- Welcome – Dave Ahern
- Integrated Schedule for Policy Updates – Rob Leibrandt
- Joint Staff (J8) UID Vision – George Sprung
 - Joint Staff Vision for Identifiers as a warfighter planning and execution requirement
- Service Brief (AF – EDCL) – Gregg Beecher
- Status of Intensive Item Management efforts – Kathy Smith
- Item Traceability (Draft SOP, Federal Anti – Counterfeiting) – Rob Leibrandt
- IRB Conditions on AIS's (Draft KPP Guide) – LeAntha Sumpter
- Open Discussion

Integrated Policy Schedule

	Pre-FY2009				FY2009				FY2010				FY2011							
	2000-05	2006	2007	2008	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q				
DFARS 2009-043	5								▲	Opened case, proposed DFARS rule			▲	DoD approval to publish draft DFARS rule			▲	OIRA cleared proposed DFARS rule		
DFARS 2010-018													DARS opened case, proposed DFARS rule				▲			
DFARS 2009-023					DARC opened case, proposed DFARS rule												OIRA cleared proposed DFARS rule			
DFARS 2009-008													DARC opened case, proposed DFARS rule							
DFARS 2008-050					Opened case, proposed DFARS rule												OIRA cleared proposed DFARS rule			OIRA cleared final DFARS rule
DFARS 2008-049													Opened case, proposed DFARS rule							
DoD 5000.64	Currently published version (replaced August 13, 2002 version)																Policy Memo Formulation			Policy Memo Signed
IUID Policy Clarification																				
DFARS 7003																	Coordination Start			
DODI 8320.04																				
Technical Documentation Policy Memo																	The final rule published			
Government Assigned Serial Number																				

Global Force Management Data Initiative
(GFM DI)
Vision for using
Unique Identifiers

10 January 2011

Joint Staff, J8

Models and Analysis Support Division

Purpose /Agenda

- Purpose: Present to IUID Scorecard meeting attendees the Global Force Management Data Initiative vision for using Unique Identifiers
- Agenda:
 - GFM DI Strategic Precept
 - GFM DI Overview
 - Task 1: Document, uniquely identify, and expose DoD authorized force structure and command relationships
 - Task 2: Next Steps
 - GFM DI Next Steps: Linking real people, equipment, locations, etc. to authorized force structure (e.g., spaces to faces; equipment authorizations to uniquely identified equipment)
 - Underpins Department processes End-to-End (Example Use Cases)
 - Priorities for Next Steps

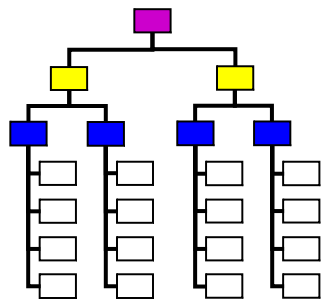
Information Brief

GFM DI Strategic Precept: Force Structure is the Common Reference

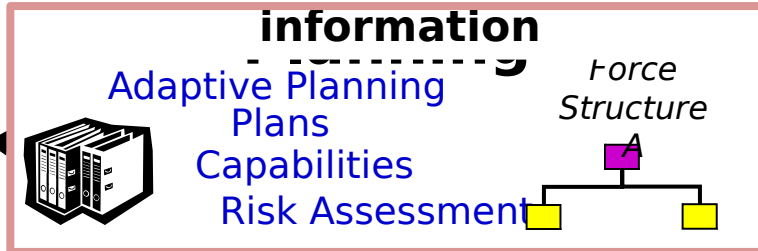
Universal identifiers enable data to be integrated to realize the power of the

Use authoritative
force structure in
Service/User
Systems

GFM DI



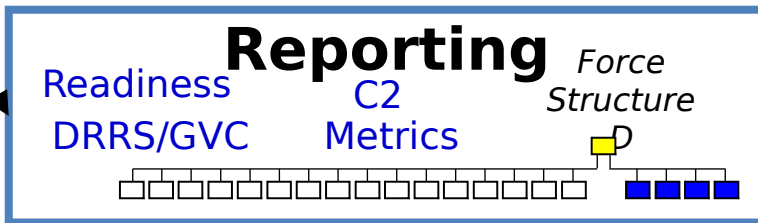
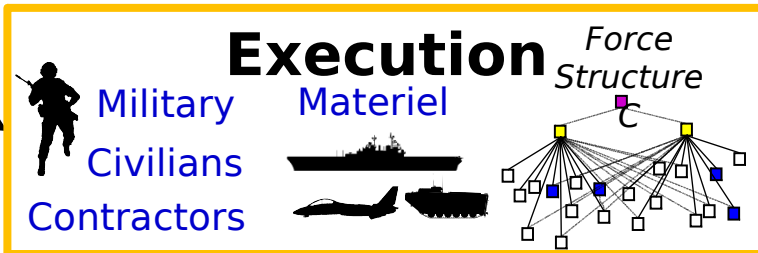
Common Force
Structure
Representation



Programming/Budgeting

Programs
Appropriations

Force Structure
B



To integrate data across domains

Timely,
accurate,
relevant
information
for senior
leaders

Sharing data across domains empowers decision making

GFM DI Overview

GFM DI documents and exposes authorized force structure and standardizes representation for use in Department information systems regardless of domain

Divided into two tasks

- Task 1: Organization (Org) Servers
 - Develop ADS for force structure data making it visible, accessible, and understandable
- Task 2: Next Steps
 - Use of standardized representation enterprise-wide

GFM DI is the Department-wide enterprise solution that:

- 1. Enables visibility, accessibility, and sharing of entire DoD force structure**
- 2. Allows integration of data across domains and systems**

Org Servers Document Every Element of DoD Force Structure and Command Relationships

Authorized Force Structure

Standardized data format Standardized rule set

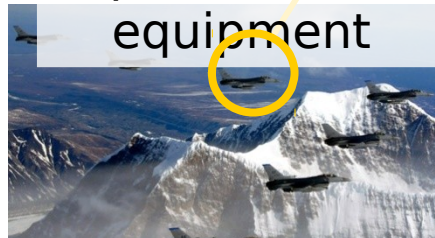
Uniquely Identifies:

every “space” for equipment & personnel
- All potential command relationships
(ADCON, COCOM / OPCON, TACON)

Doctrinal Organizations



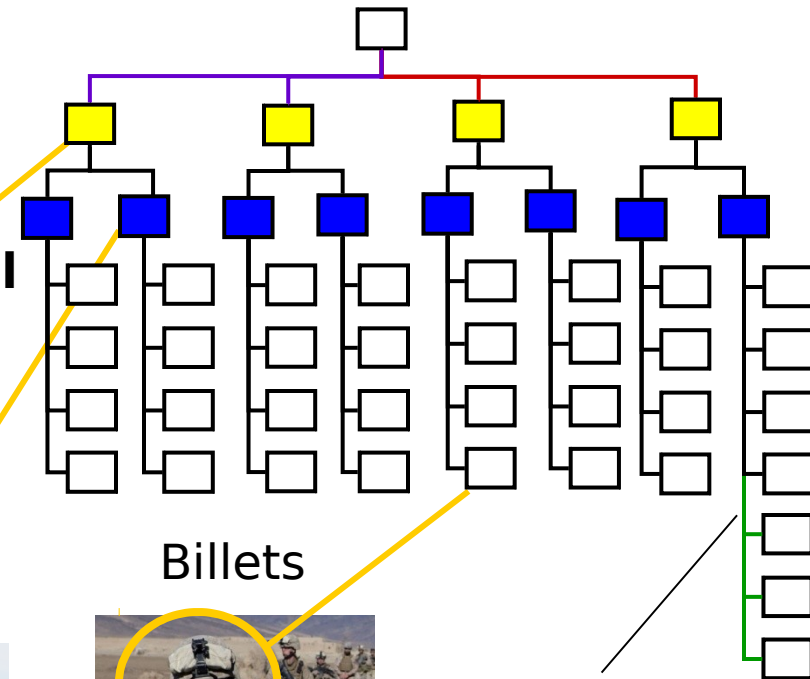
Crew-
platformed
equipment



Billets



Command Relationships

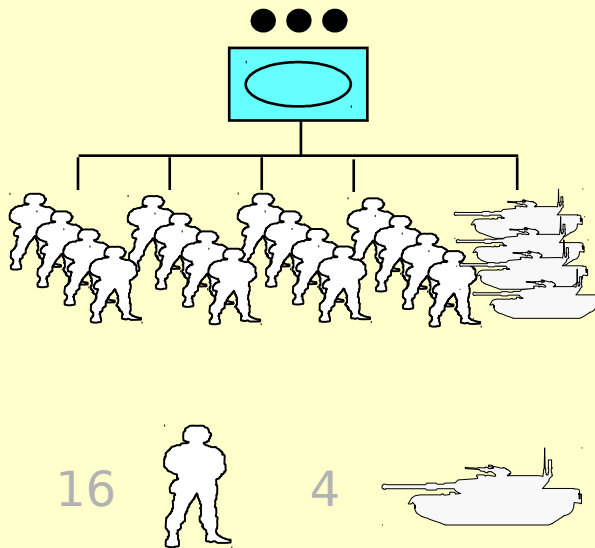


GFM DI documents and standardizes the representation of organizations and command relationships (CY + 6 Yrs)
GFM DI uniquely identifies organizational elements and time tags the data

GFM DI: Document “Authorized” Force Structure as the Basis for “On-Hand” and “Execution”

GFM DI Task 1

What are you authorized?



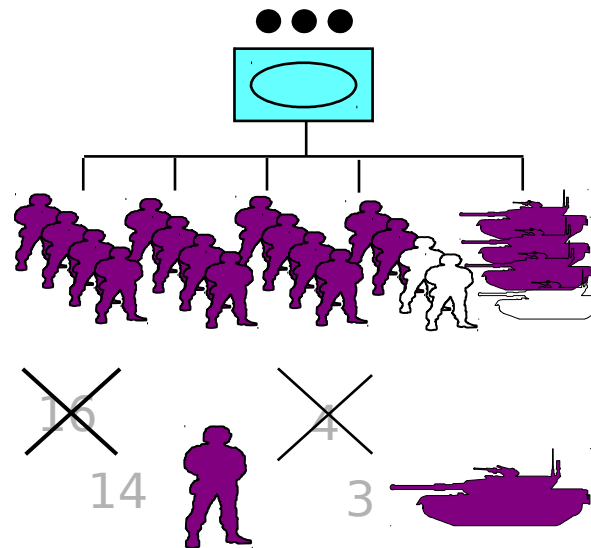
Authorization data

Authorized by Law and organized by the Components

Org Servers

GFM DI Next Steps Task 2 -- Service/User System

What do you actually have?

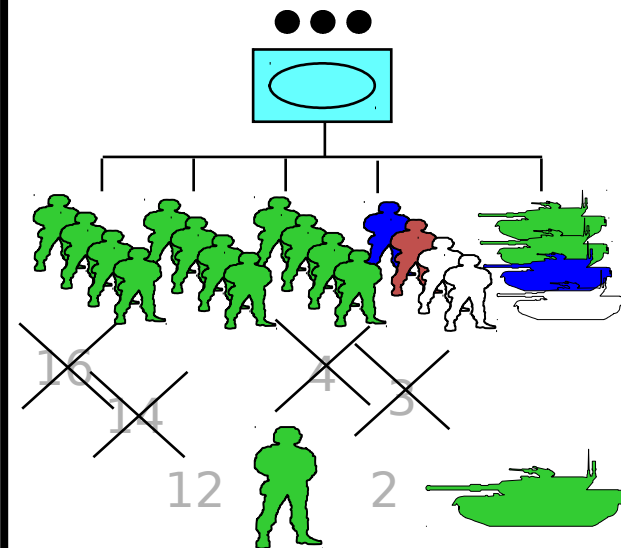


“On-Hand” data

Property Books & Readiness, Logistics & Personnel Systems

ITAPDB, MCTFS, MilPDS, etc.

What do you have to operate with?

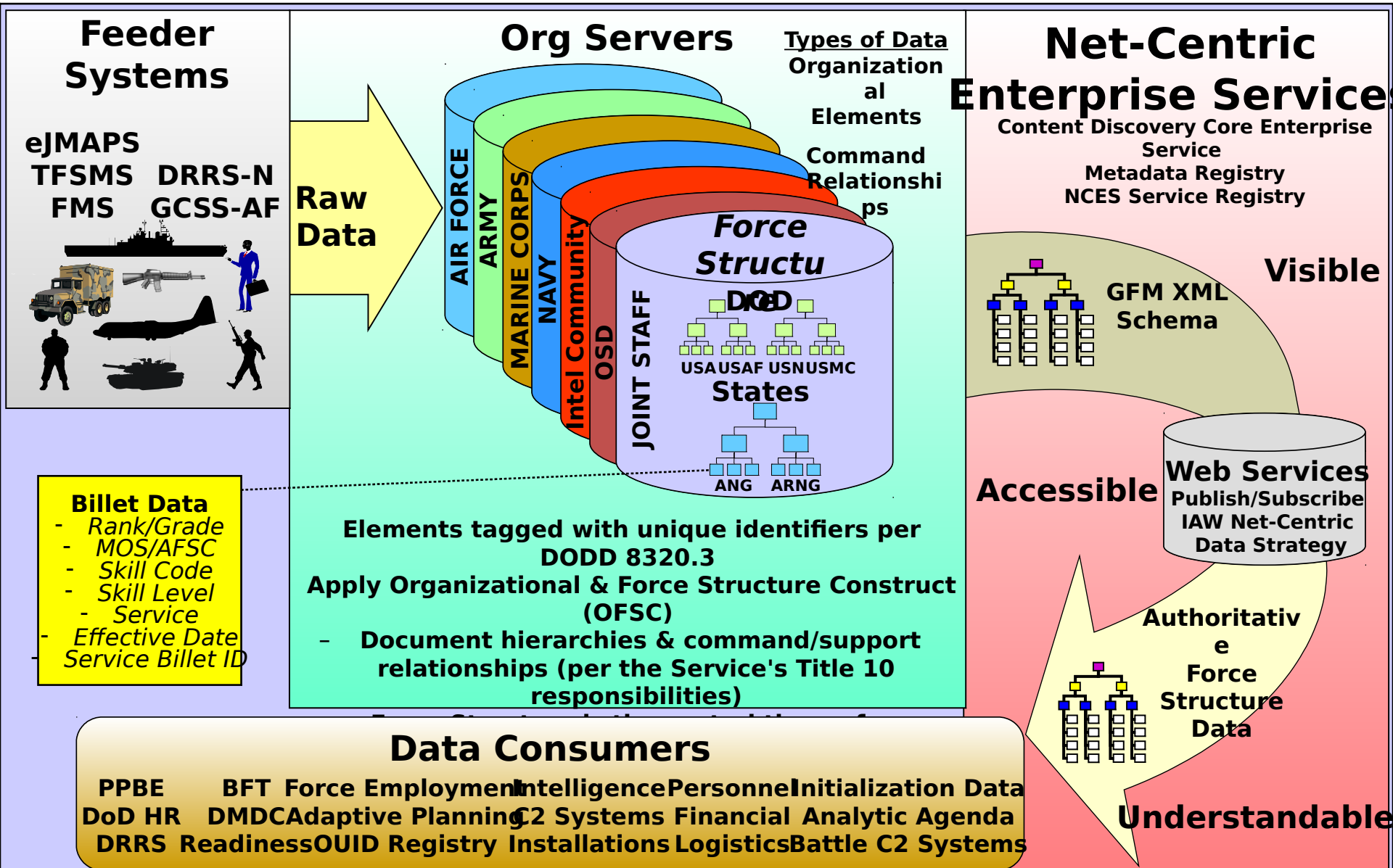


Execution data

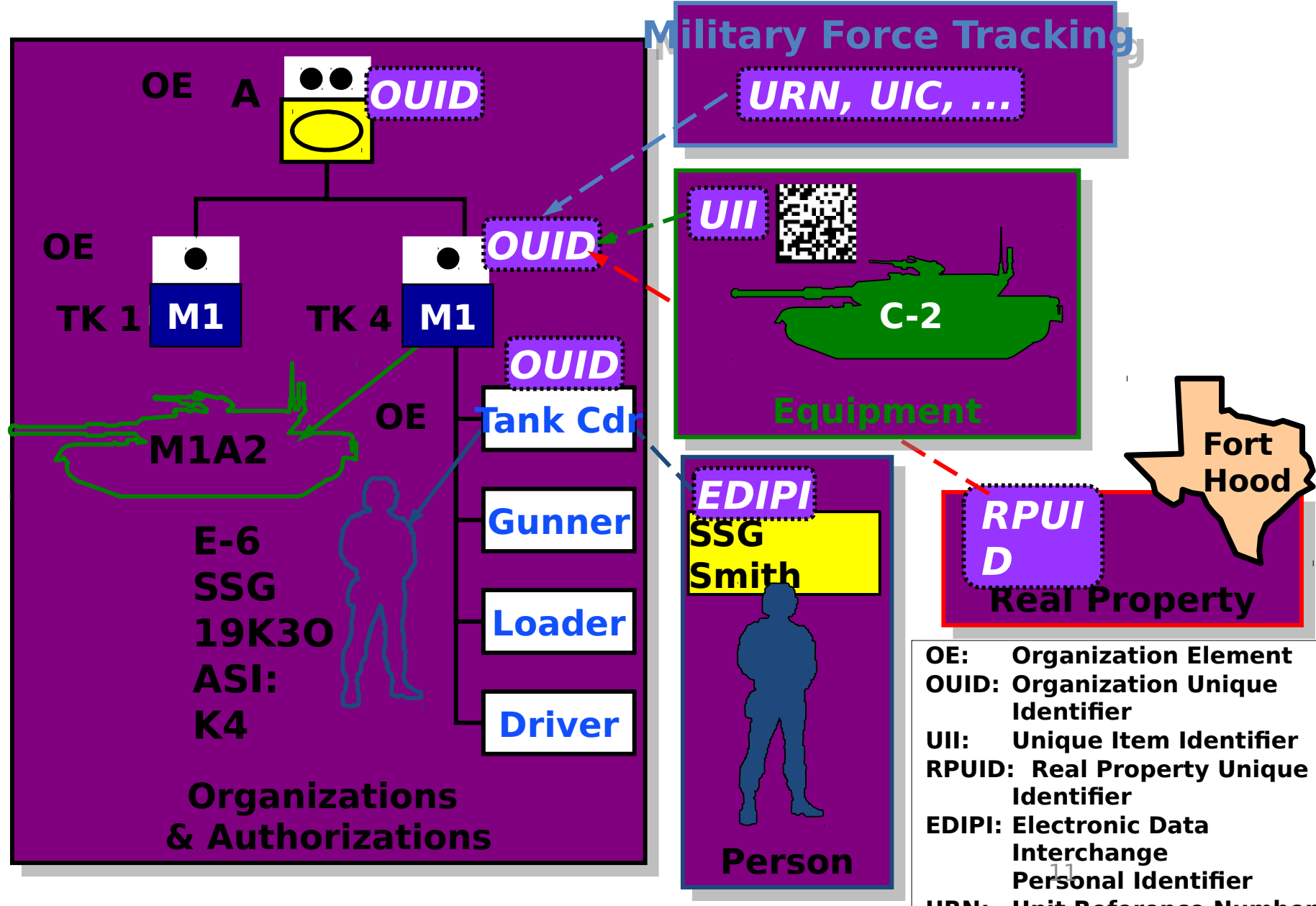
Readiness, Logistics & Personnel Systems

DRRS, JOPES etc.

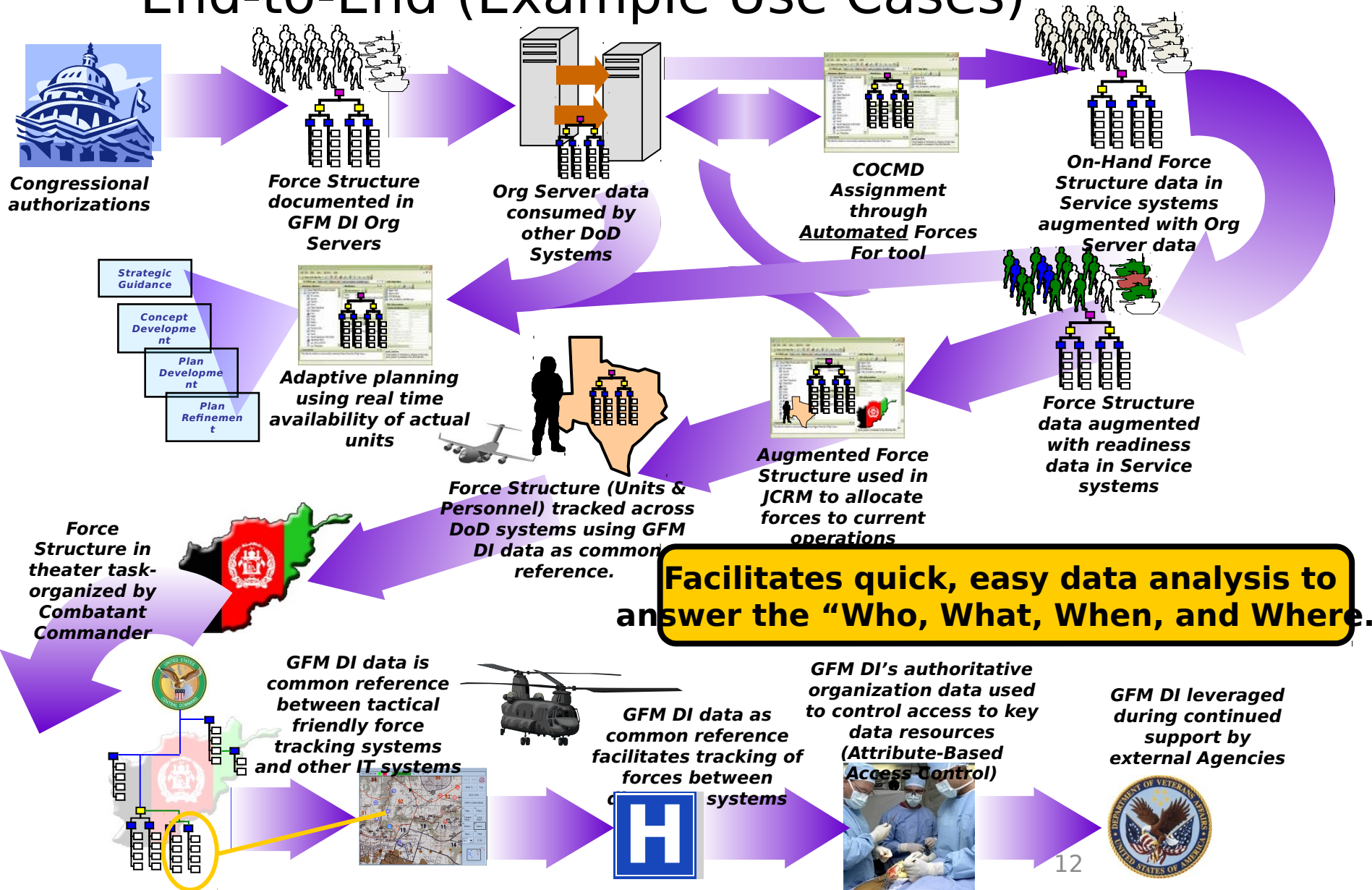
GFM DI Next Steps



GFM DI: Linking OUIDS to Real Equipment, People and other identifiers



GFM DI Data Underpins Department Processes End-to-End (Example Use Cases)



GFM DI Next Steps Priorities

GFM DI Next Steps capabilities priorities

- Assignment [Apportionment Tables] **Achieve GFM Assignment by end of FY12**
- Manpower and Personnel
- Readiness
- Allocation **Achieve GFM Allocation by end of FY13**
- Command and Control **Military Force Tracking Memo. Services present plans for linking force structure to military force tracking system identifiers**
- Logistics & Movement **Defense Transportation System Memo. TRANSCOM present plan for linking force structure to DTS identifiers**
- Adaptive Planning
- Financial
- Electronic Health Records
- ABAC, EIAS, & EUI **Accelerate GFM DI Next Steps to support ABAC role based authorities needed for DoD Secure Computing Environment by end CY11**



GFM DI Contact Info

- J8 MASD POCs
 - Col Erick McCroskey, USAF, (703) 697-7413 DSN 227-7413
 - Mr George Sprung, (703) 697-7544 DSN 227-7544
 - Maj Brian Balazs, USAF, (703) 697-7434 227-7434
- GFM DI NIPRNet wiki page:
https://www.intelink.gov/wiki/Global_Force_Management_Data_Initiative
 - (Requires CAC or Intelink Account - see <http://ra.intelink.gov>)
- GFM DI SIPRNET wiki page:
http://www.intelink.sgov.gov/wiki/Global_Force_Management_Data_Initiative_GFM_DI
- IChart webpage on AKO: <https://www.us.army.mil/suite/page/180709>

Headquarters U.S. Air Force

Integrity - Service - Excellence

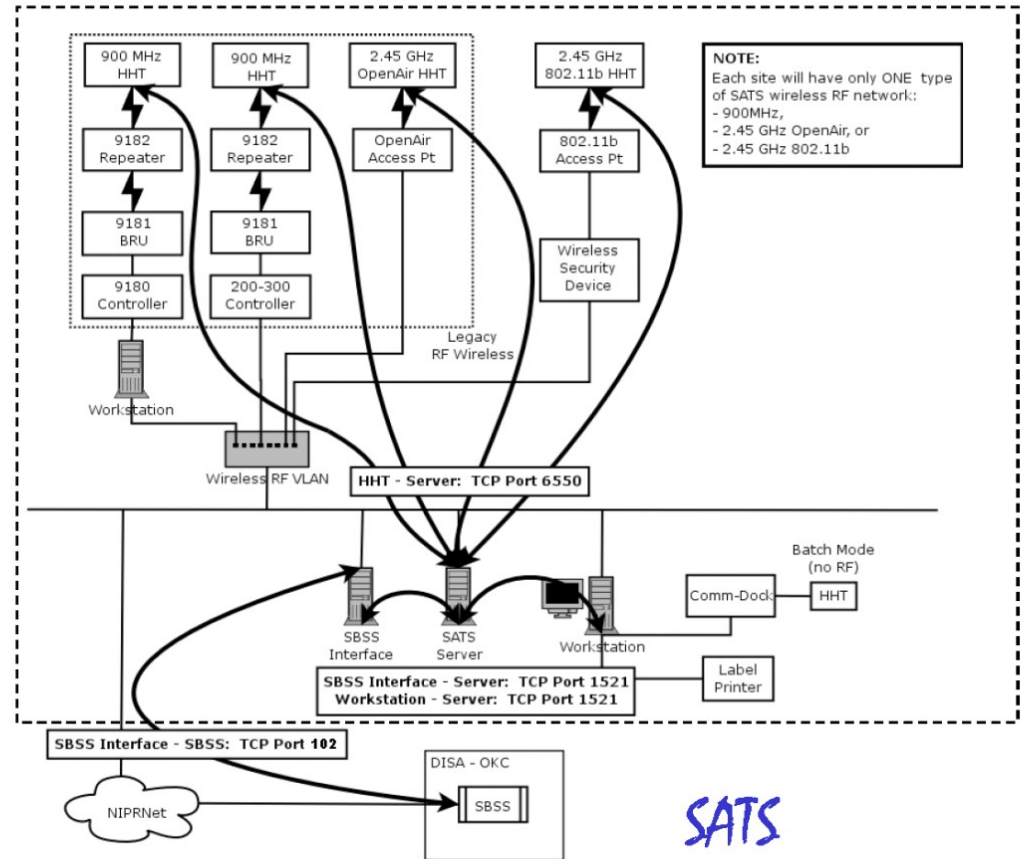
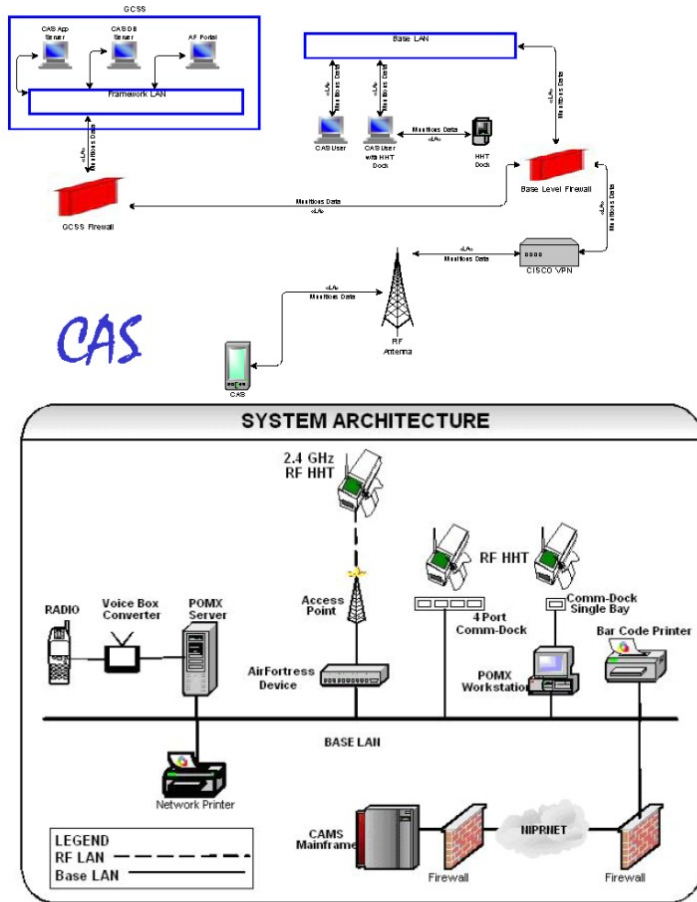
Enterprise Data Collection Layer (EDCL) Update



**Mr Gregg Beecher
AF/A4ID
10 Jan 2011**

U.S. AIR FORCE

Current Architecture

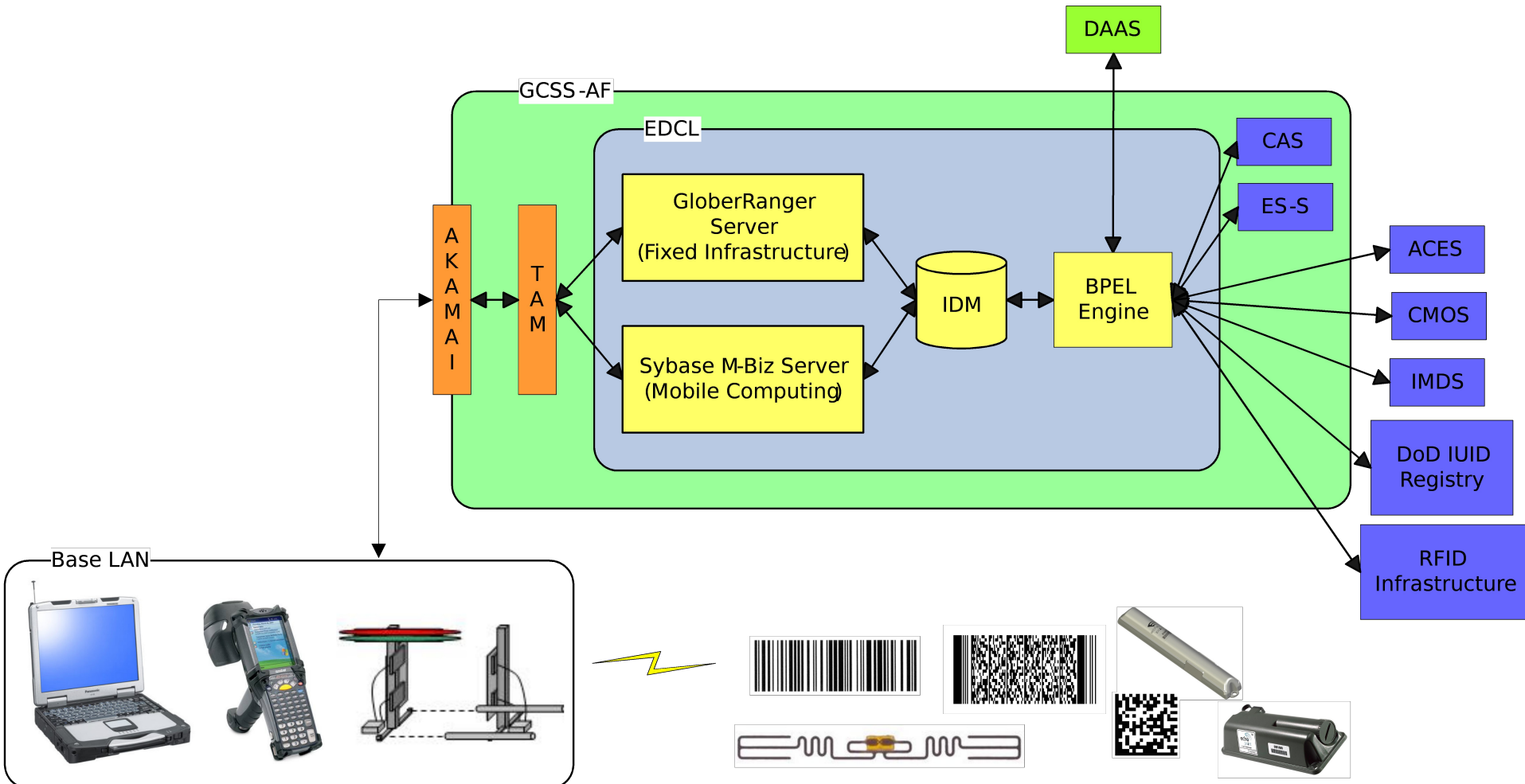


EDCL Overview

- The Enterprise Data Collection Layer (EDCL) is an IT infrastructure hosted in the GCSS-AF framework
 - Provides support for mobile computing and fixed infrastructure Automatic Identification Technology (AIT) devices
 - Collects supply chain events from AIT devices
 - Transform the events (as necessary) and forward the events to the appropriate AIS(s)
 - Transactional system and not a persistent system of record for supply chain events

**TO BE BOTH EFFECTIVE AND
AFFORDABLE**

Full EDCL Architecture: Legacy Systems



EDCL BLUF

- Standardized
 - Hand Held Program deployment
 - Disconnected operations
 - Portable Object Deployments (PODs) for scanners, wireless radios, communication ports, Common Access Card (CAC)
 - Licensed browser
 - Single data file for all Automated Data Collection (ADC) event data
 - Business process layer to translate ADC event data to transactions back end systems can understand
 - Enterprise IUID reading capability
 - Enterprise RFID reading capability

EDCL Customers

- ILS-S (Asset Management)
- CMOS (in-check with Asset Management)
- CAS (CAS AIT)
- GATES (Active RFID Reading)
- PIC NWRM (PIC ADC and Pickup and Delivery)
- Enterprise Part Marking and Registration (AFSDB)
- AFEMS Marking (Asset Inventory and Marking Tool)
- IMDS (Point of Maintenance)
- Depot (DRILS and LDMS)

EDCL v1.0

- EDCL v1.0 – Mobile Applications
 - Framework to support mobile computing
 - Operational in Production 19 Feb 2010

EDCL v1.5

- EDCL v1.5 – Fixed Infrastructure
 - Builds onto EDCL v1.0
 - Incorporates
 - Mobile Lighthouse (provides Tivoli Access Manager navigation)
 - BPEL (set of distinct services forming an end-to-end process flow)
 - Applications
 - Combat Ammunition System (CAS)
 - Asset Management/ES-S
 - Positive Inventory Control (PIC)
 - Operational in Production Aug 2010

EDCL v1.6

- EDCL v1.6 – AFSDB
 - Builds onto EDCL v1.5
 - Incorporates
 - Mark registration with DoD IUID Registry
 - Support for SNT metrics database
 - PIC Fusion support
 - TMO In-Check Support
 - Management Console
 - Applications
 - TRIAD2
 - AIMT
 - GATES (EDCL v1.6.1) Mar 2010
 - Operational in Production date 7 Dec 2010

EDCL v1.7

- EDCL v1.7 – Device Management
 - Builds onto EDCL v1.6
 - Applications
 - Framework Diagnostic Toolkit
 - POMX
 - Upgrades
 - M-Business v7.0
 - Oracle 11
 - SQL Anywhere 11
 - UltraLite 11
 - Enables
 - Background Synchronization
 - Planned Production date is Jun 2011

EDCL v2.0

- EDCL v2.0 – Clustering/FLB
 - Builds onto EDCL v1.7
 - Enables
 - Sybase Clustering
 - Failover Load Balancing
 - Recovery Scenarios
 - Planned Production date is TBD

Future Versions

- Integrate
 - RTLS/WhereNet/AFGET
 - Track and identify the location of objects in real time
 - Systems that provides passive or active (automatic) collection of location information
 - A2B UID Engine
 - Lifecycle Asset Management
 - UID-relevant events occur during asset lifetime
 - Different applications witness these events
 - Maintained UID engine to react to these events
 - Insight and guidance as to current UID & DoD standards

Future Versions

- Integrate
 - Enterprise UII Reading Capability
 - Leverage EDCL to scan UII and return the pedigree information
 - Enterprise RFID Capability
 - Leverage EDCL to read and process RFID reads
 - Sensor Tag (munitions)
 - House the Sensor log data for analysis
 - Provide analysis capability

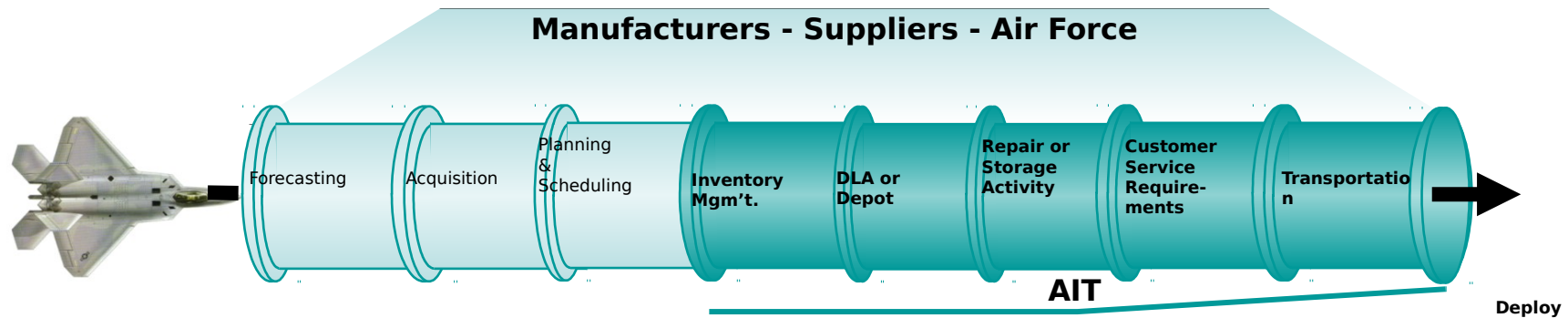
Summary

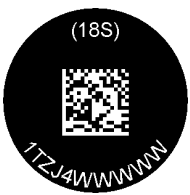
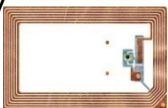
- An Enterprise Data Collection capability provides numerous benefits:
 - Partition business rules to minimize or avoid updating legacy AIS – implement technology driven business rules in device and process layer
 - Shared data – configurable routing of data destinations in process layer
 - Aggregated data in a shared environment minimizes data transmissions while maximizing data availability
 - Provides timely, accurate supply chain events to decision makers
 - Increases the velocity and visibility of the AF

EDCL Benefits

- Partition business rules to minimize or avoid updating legacy AIS
- Shared data – configurable routing of data destinations in the process layer
- Aggregated data in a shared environment minimizes data transmissions while maximizing data availability
- Provides timely, accurate supply chain events to decision makers
- Increases the velocity and visibility of the AF Supply Chain

eLog21 and AMT Benefits



1. Mark it	2. Track it	3. Share it
<ul style="list-style-type: none"> Unique Identification Automated data capture Improved data accuracy Reduced paperwork 	<ul style="list-style-type: none"> Reduced cycle-time Improved asset visibility and accountability Improved capacity utilization of tools Increased dispatch reliability 	<ul style="list-style-type: none"> Repair history Cycle time info Centralized documentation Increased maintenance reliability

End to End Visibility and Information

Exploiting IUID Is Key to Logistics Transformation

Transformation Drivers

- Since DESERT SHIELD the Air Force operating at a wartime pace with diminished resources
 - Average 2.3 million flight hours per year
 - Total Active Duty fleet strength reduced by 36%
 - Total Active Duty force reduced by 38%
- The Air Force must fundamentally transform Air Force logistics to address current and future operations
 - Now engaged in multiple, simultaneous operations with a smaller force
 - We support an aging aircraft fleet that requires more frequent upgrades, repair and maintenance
 - Today's contingencies require flexible, modular, and scalable logistics processes



**TO REMAIN EFFECTIVE &
RELEVANT**

Status of Intensive Item Management: Implementing IUID in the Supply Chain

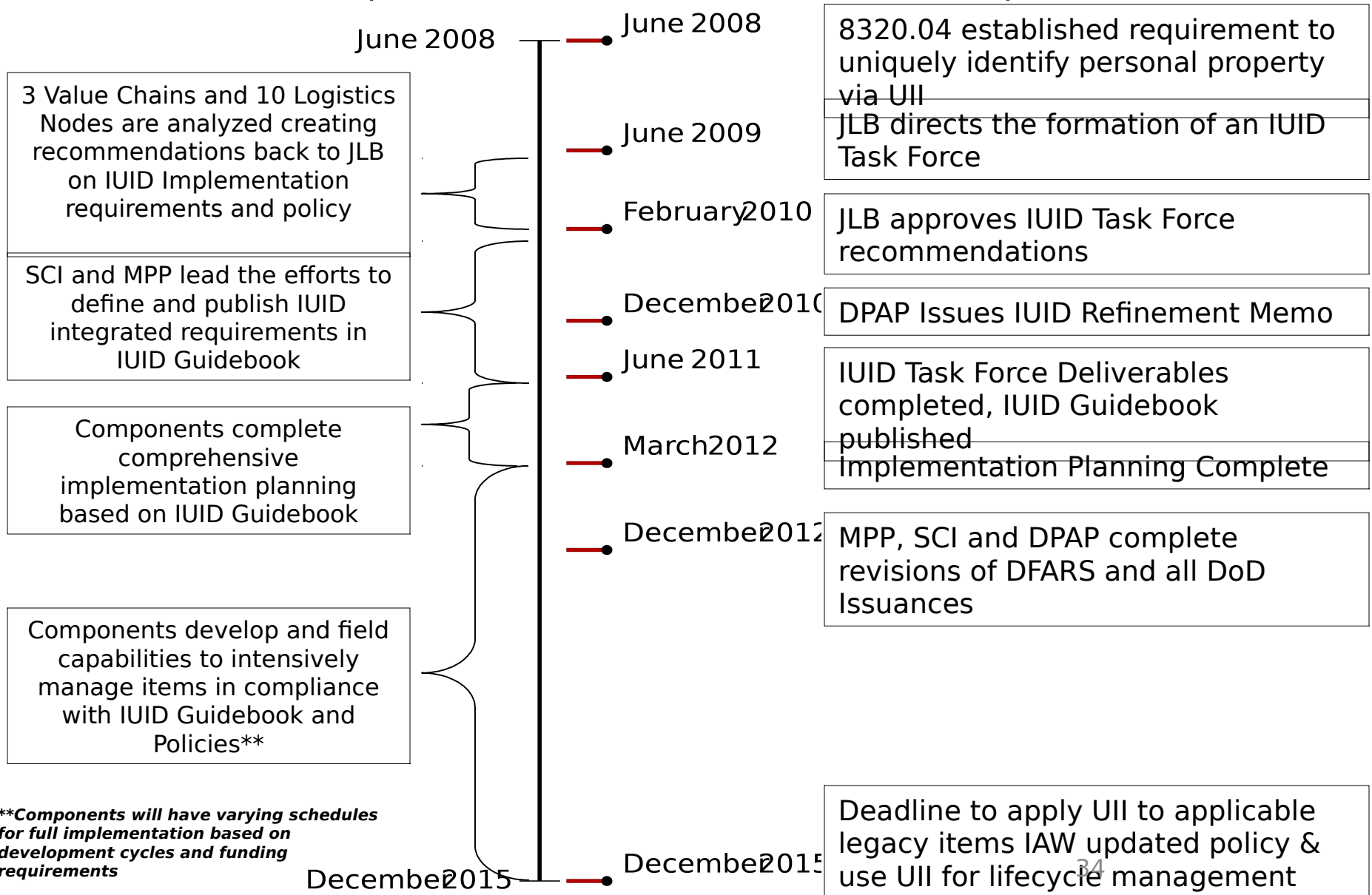
Ms. Kathleen Smith
OSD/L&MR, Supply Chain Integration
January 10, 2011

Purpose

*Provide an overview of our progress
implementing IUJD in the DoD Supply
Chain*

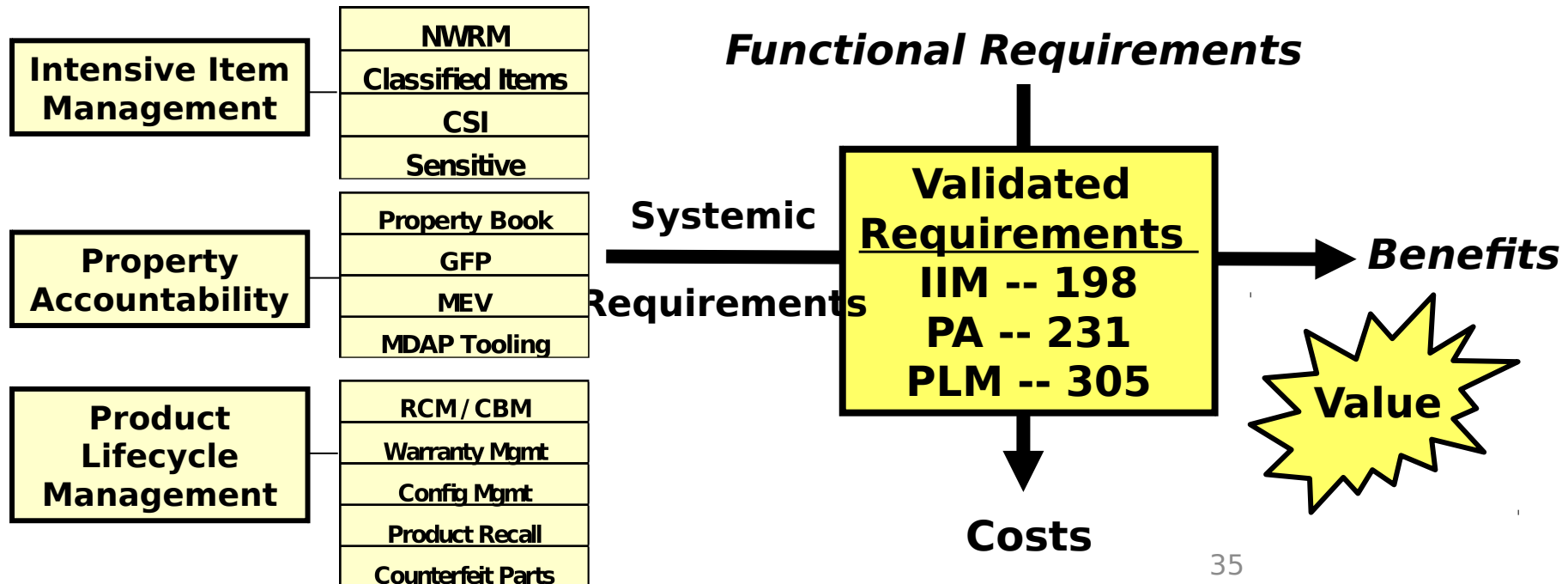
The Proposed IUID Timeline

(To be coordinated with Services)



JLB Task Force Analysis (April 2010)

Acq Log Plannin g	Acq & Supplie rs	Distri b Cente rs	Transpor t	Base & Fwd Supply	Depot Maint	Field Maint	In Serv Engr & Log Analy	Field Activiti es & Opns	Disposal
									
OSD	Navy	DLA	OSD	Army	OSD	OSD	AF	J4	DLA



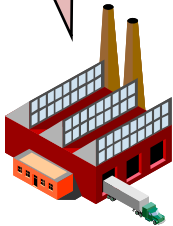
JLB Decisions (April 2010)

Current Policy	Recommended Policy	Impact
Mark all applicable items by 2015 and end items by 2010.	Apply UII to applicable legacy items IAW updated policy. Use UII for lifecycle management NLT 2015.	Links mark and use policy.
Mark all sensitive, classified and controlled items.	Apply IUID management to intensively managed & tracked items (IIM, new and legacy): <ul style="list-style-type: none"> • Small arms, NWRM, sensitive and classified. • Pilferable and CSI over \$5K. 	Targets population - can reduce IUID managed items by ~176M.
Mark all new acquisition and legacy items over \$5K, and all mission essential, serially managed, and GFP items.	Apply UII to these new acquisition and legacy items: <ul style="list-style-type: none"> • End items. • Mission essential items. • Reparable items. • Serially managed items. • GFP. • Non-intensively managed consumables by RA discretion. 	Targets items that provide greatest benefit and can reduce number of managed items by ~90M.
All other items at discretion of requiring authority (RA).	No change - achieve management goals and benefits in orderly, cost-effective manner.	N/A
Services and DLA budget for implementation costs. Bottomline: - Maintain current IUID policy for ME/GE (>\$5000 unit cost)	Services and DLA prioritize non-recurring engineering for IUID in budgets. - Change current IUID policy for secondary inventory from >\$5000 unit cost to focus on items with a unique item level traceability requirement	Focus implementation strategy.

Concept of Operations for Implementing Item Unique Identification (IUID)

Suppliers are required to assign a UII to the item and **mark the item with a 2D symbol** to carry the UII.

**Manufacturers/
Suppliers**

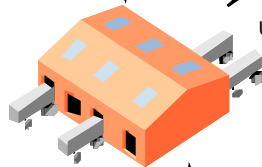


UID Materiel



The Distribution Centers **collect the UIIs from the exterior packaging or suspend** until items can be validated.

**Distribution
Centers**

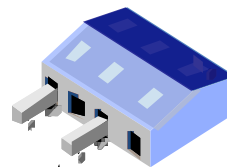


UID Materiel



Items are **inventoried by UII (optional for some items)** and eventually **issued by UII** to customers.

**Forward
Supply**

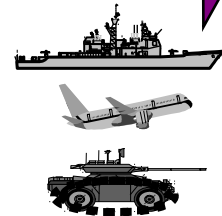


UID Materiel



Maintenance activities remove items from the box and **scan the 2D symbol to capture identity of the item during repair action.**

**Field
Maintenance**

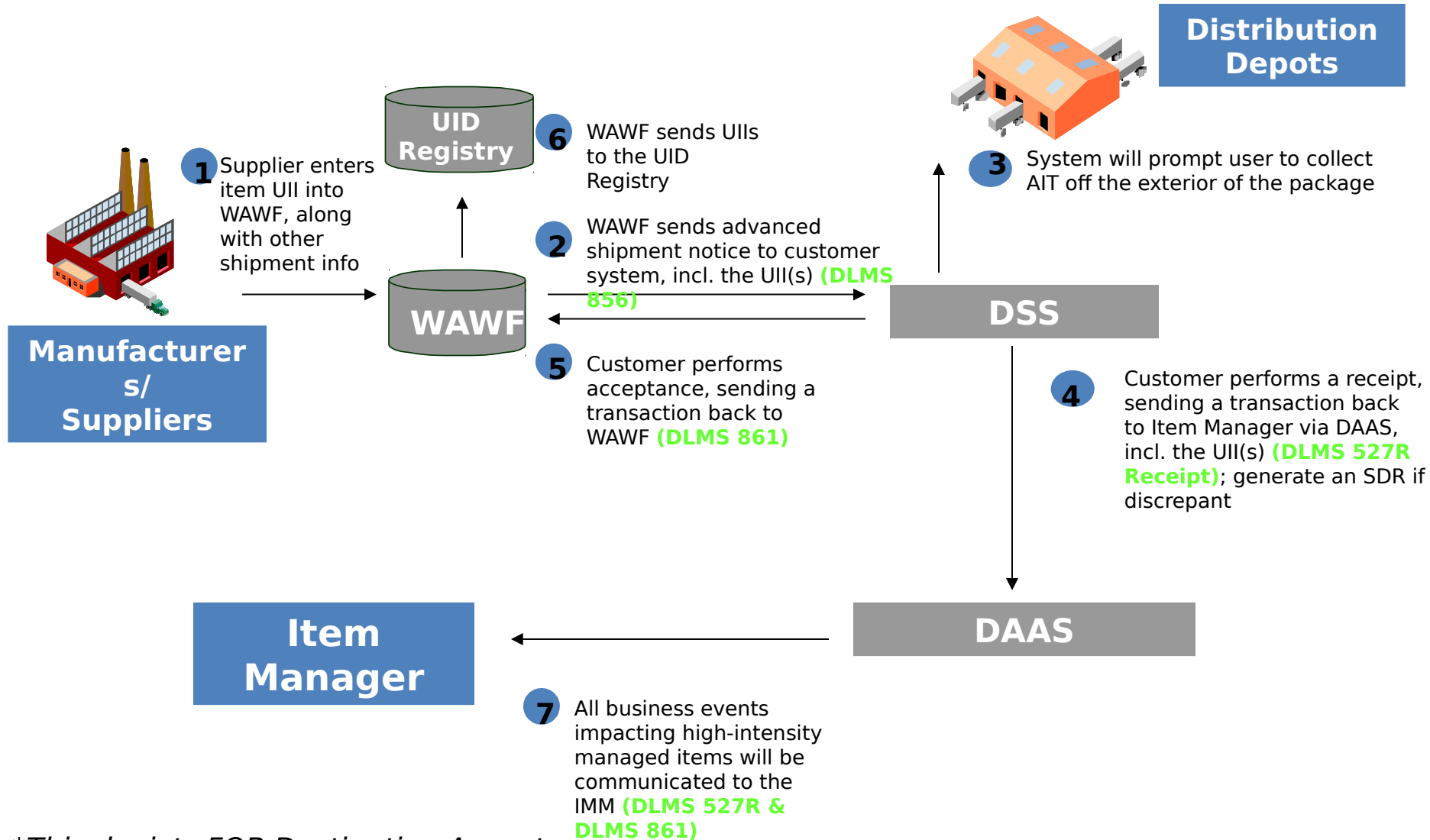


The **Suppliers** are required to have **UII(s) available on the exterior** of the packaging upon shipment.

If the items are owned by more than one owner, the items are **stored by owner** to facilitate proper inventory and issue.

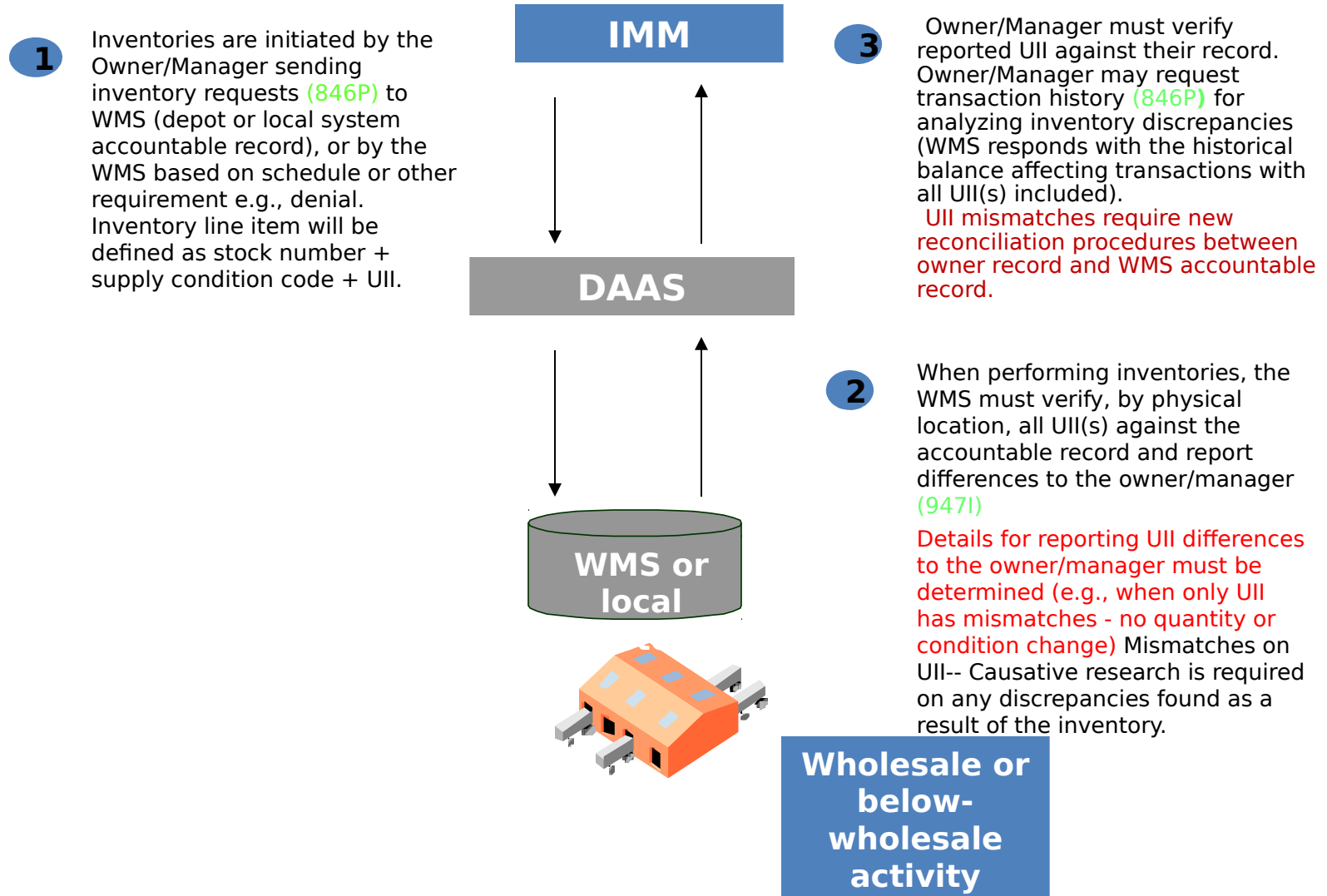
The Forward Supply Activity **collect the UIIs from the exterior packaging or suspend** until items can be validated.

RECEIPT USING IUID: DLA Distribution Center receives new procurement items by UII from the commercial vendor*

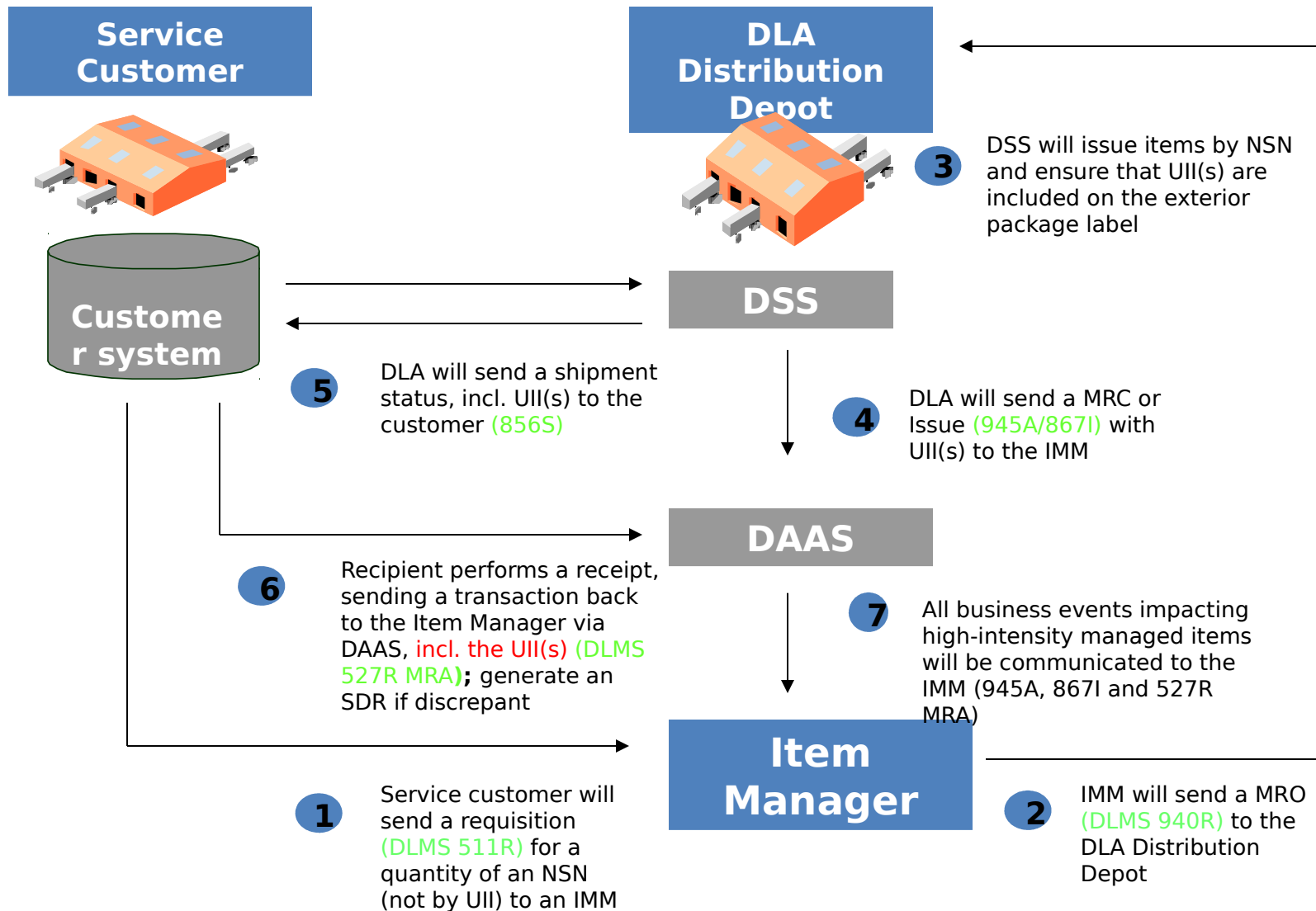


*This depicts FOB Destination Acceptance

INVENTORY USING IUID: Wholesale and below-wholesale activities perform inventory



ISSUE USING IUID: DLA Distribution Depots issue items to customers based on receipt of a Materiel Release Order (MRO)



Definition of Serialized Item Management By UII

- SIM by UII: Management and tracking of a select population of items that have a unique item level traceability requirement
 - Unique item level traceability is defined as the requirement to trace lifecycle management events related to acquisition, property accountability, storage, operation, maintenance, safety, physical security, retirement, and disposal by each individual item
 - “Individual item” is defined as a single instance of a stock-numbered item or a single assembly/subassembly
 - The need for unique item level traceability requirement is determined by the manager of the item (IMM for consumables and PICA for reparable)
 - Existence of a manufacturer’s serial number does not constitute a requirement for SIM...must meet at least one of the following:
 - DoD serially-managed sensitive, DoD serially-managed critical safety, and/or DoD serially-managed pilferable items

In scope...secondary inventory governed by DoD 4140.1-R traceability

Levels of Supply Management Intensity

Standard-intensity serialized management by UII

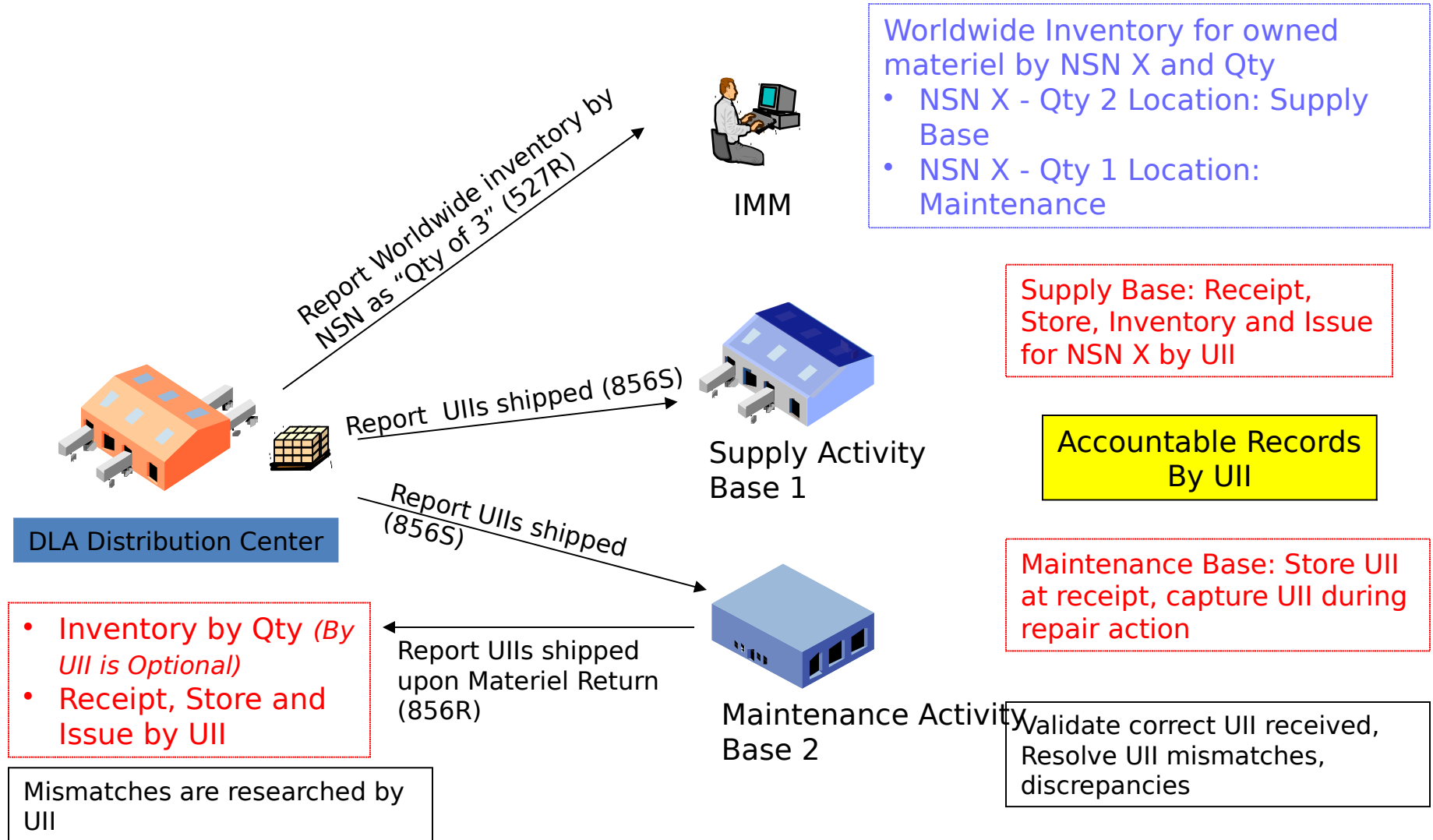
- Managed by UII in accountable records (storage activity)
- DoD serially managed items that are classified confidential, sensitive or pilferable or DoD serially managed critical safety items or depot level reparable

High-intensity serialized management by UII

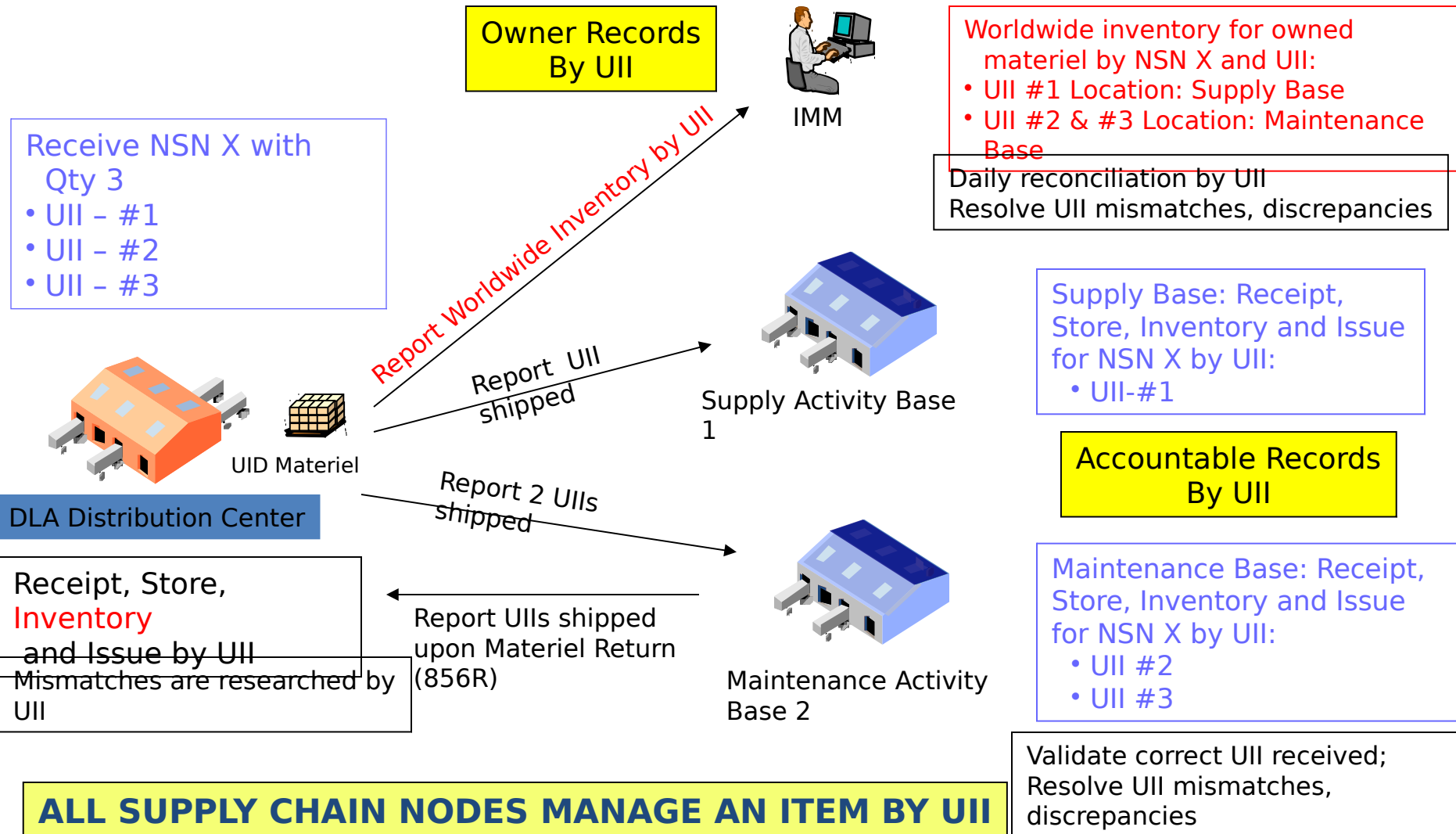
- Managed by UII in accountable records (storage activity) and owner records (ICP)
- DoD serially managed classified secret and above or NWRM

FLIS code under development will enable standard and high intensity

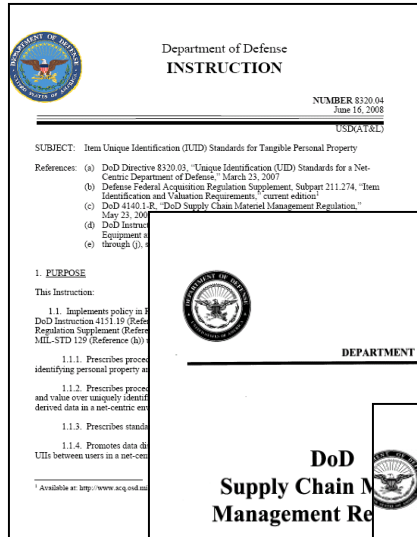
Standard-Intensity Serialized Management



High-Intensity Serialized Management



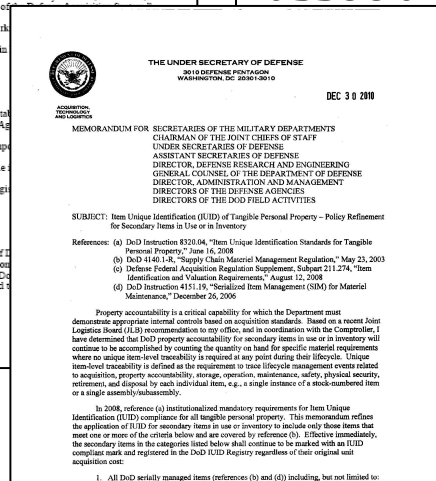
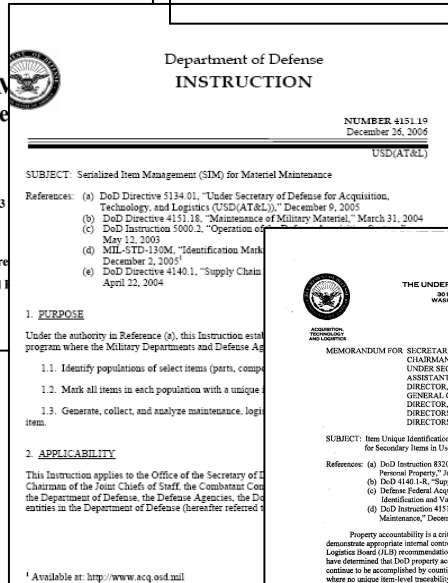
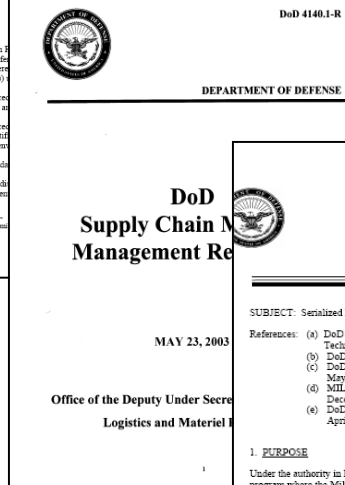
IUID Policy Today



"Modernize acquisition, logistics, and property management Automated Information Systems with UII requirements including use of the IUID Registry"

"Standard UII programs shall be established within the Department of Defense for selected items to maintain visibility of each uniquely identified asset for the primary purpose of inventory control and/or engineering analysis."

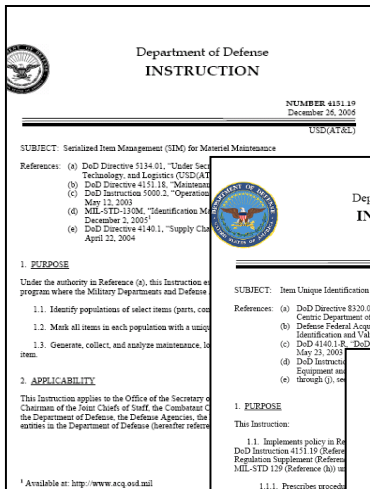
"SIM programs shall facilitate the effective management of populations of select items throughout their life cycle using data associated to a unique item by its UII."



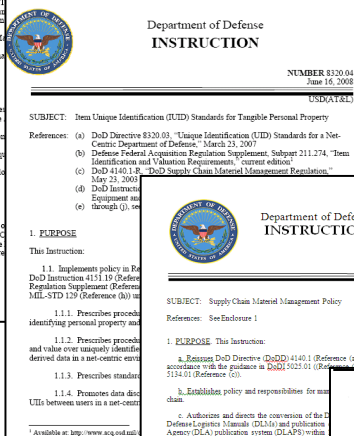
Focuses secondary inventory on DoD serially-managed sensitive, pilferable and CSI items and depot level reparables, removing the current generic \$5000 per item requirement

DPAP

IUID Policy Tomorrow

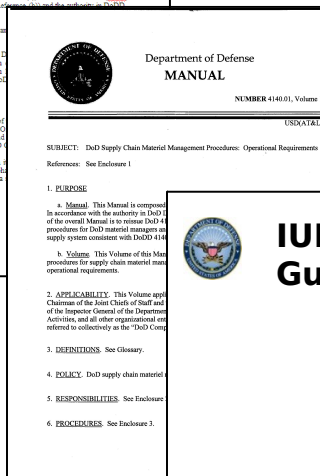


Will be updated to reflect JLB Task Force maintenance workshops



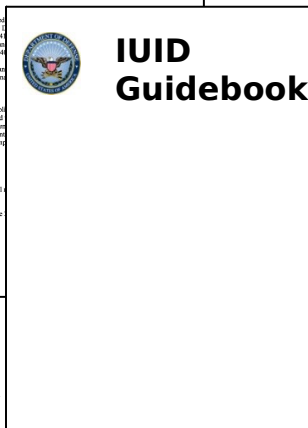
Will be updated to reflect refinement memo requirements

"Unique item level traceability is required for all DoD serially managed items that are controlled inventory items, all DoD serially managed critical safety items, all depot level reparable and all NWRM using a UII"



"Components shall account for all DoD serially managed items that are CII, or DoD serially managed critical safety items or NWRM by UII within NSN or by serial number until such time as system changes implementing IUID are complete. These items shall be assigned a UII in accordance with DoD Instruction 8320.04 (Reference (d)) and a level of management intensity commensurate with the risk (high and standard)."

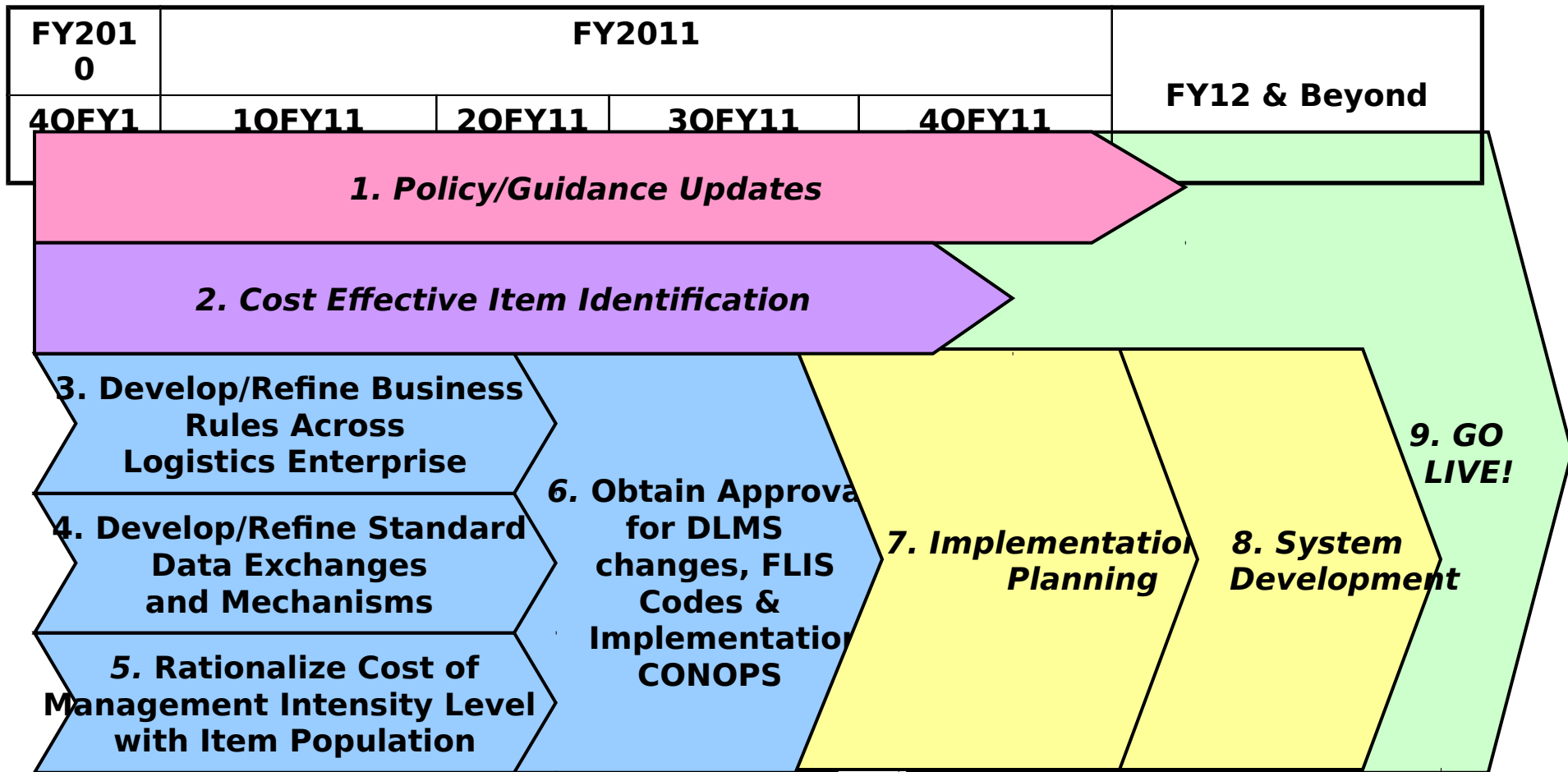
Detailed procedures such as...The ICP system will receive update from receiving activity on UII(s) received (i.e. 527R



SCI

L&MR

The Way Ahead



Next Steps

- SCI and MPP, with comment from Services and DLA, develop Guidebook – June 2011
- SCI, MPP and DPAP revise DoD issuances and DFARS – complete by Dec 2012
- Services and DLA define UID requirements for their ERPs – thru 2QFY12
- Components develop and field capabilities to intensively manage items in compliance with IUID Guidebook – FY12 and beyond
- Services and DLA continue with legacy marking efforts – complete by Dec 2015

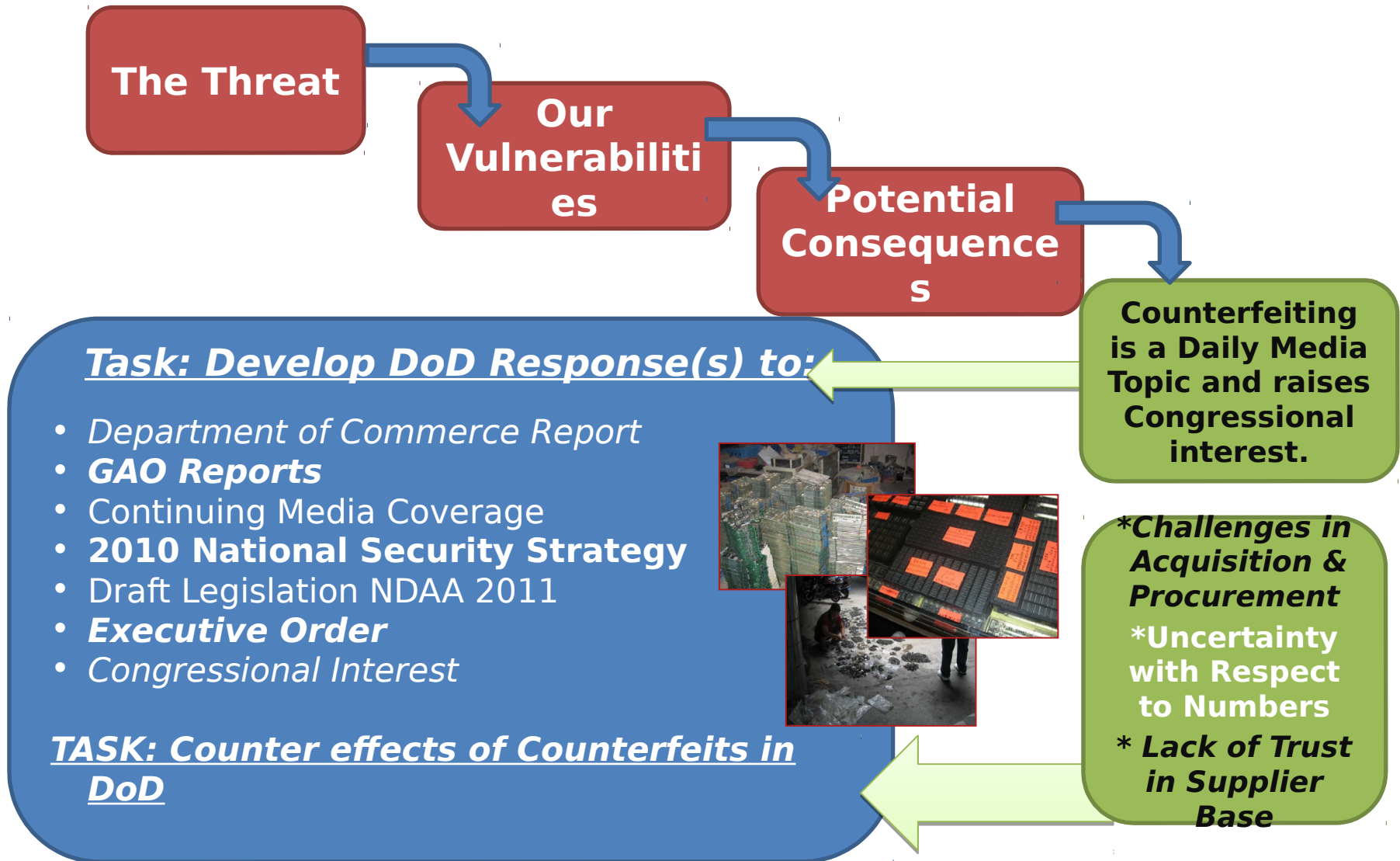
Item Traceability: Federal Anti-Counterfeiting Efforts

Mr. Robert Leibrandt

OSD/AT&L, Defense Procurement &
Acquisition Policy

January 10, 2011

Framework for Discussion



Risk Factors

Part Designation

- Mission critical components; Safety Items
- Controlled Inventory

Design, Production, Sustainment, Intellectual Property Control

- Government
- Contractor

Traceability

- Prime, Sub-tier Suppliers, Government Inventory
- Intensity of Item Management
 - High: Detailed Chain of Custody
 - Medium: Certificate of Authenticity
 - Low: Range of Existing Receipt and Acceptance Regulations

	Focus Areas [Lead]								
Focus Areas	Standards		Procurement		Traceability			Outside of Scope of Jan 19th	
Course of Action	Industry/Engineering Standards		Contractor Selection: Evaluation Factors, Past Performance [DoD-DPAP]	Qualification Requirements (QPL, QML, or QBL) – FAR Part 9 [DoD-DPAP]	Contractor Purchasing System Reviews [?]	Traceability [DoD – DPAP]	Marking/Identifying [DoD-DPAP]	Reporting (e.g., GIDEP) [DoD]	Collaboration, Training, & Agency Oversight [NASA]
	DoD-IP	NASA							
Require Program/Item Managers to determine susceptibility to anti-counterfeiting in their risk management planning for any requirements and to ensure authenticity of delivered items including critical embedded components						Primary	Support		
Leverage existing higher level quality requirements to invoke anti-counterfeiting by applying industry standards (e.g., SAE AS 6081, SAE AS5553, SAE AS XXXX)	Primary						Support		
Establish the regulatory framework to contractually require stronger anti-counterfeiting procedures to be taken by suppliers			Support	Primary					
Establish requirements for potential suppliers to demonstrate traceability to the design/manufacturing authority when it is commercial			Primary	Support	Support	Support			
Require documented flowdown of traceability				Support	Primary				

	Focus Areas [Lead]							
Focus Areas	Standards		Procurement			Traceability		
Course of Action	Industry/Engineering Standards		Contractor Selection: Evaluation Factors, Past Performance [DoD-DPAP]	Qualification Requirements (QPL, QML, or QBL) – FAR Part 9 [DoD-DPAP]	Contractor Purchasing System Reviews [?]	Traceability [DoD-DPAP]	Marking/Identifying [DoD-DPAP]	Reporting (e.g., GIDEP) [DoD]
	DoD-IP	NASA						
Implement item and package marking approaches that enable the government to ensure the item delivered is an authentic item, meets performance specification and can be used to verify its traceability/authenticity during its lifecycle				Support		Support	Primary	
Establish ad-hoc group of federal agency and industry advisors from existing industrial base and government bodies to advise on proposed regulatory requirements, standards, training, etc.								Primary
Consider establishing a government/industry consortium of test/evaluation facilities to share best practices in anti-counterfeiting techniques	Support							Primary
Establish training and outreach strategy and identify resources (e.g. NASA training)								Primary
Consider legislation that			Primary					

Status of Next Steps

- ✓ Dec 15th - Joint meeting with DoD/NASA/GSA to further refine the proposed course(s) of action, develop a high level strategy document, establish action leads and prepare for next ad-hoc group meeting
- Jan 14th – Next ad-hoc group meeting OMB/DoD/NASA/GSA to initiate the proposed courses of actions through subgroup action leads
- Jan 19th – Federal outreach to Agency and Industry session to share best practices and information

Planning for Jan 19th

- Location: Rosslyn, VA
- Invitees
 - Agencies [OMB, OSD, NASA, GSA, DCMA, DOE, DLA, NRO, DOJ, MDA, DHS, DOC, HHS]
 - Associations [CODSIA, AAQG, ASQC, INCOSE, SAE, Semiconductor Industries Association (SIA)]
- Read Aheads
 - Informational Brief
 - Questions to consider for each of the following focus area
 - Traceability and Reporting
 - Standards
 - Procurement
 - Hyperlink to GAO Report and Commerce Report

Agenda for Jan 19th

Notional Agenda for Outreach Session

- Opening Situational Awareness
 - IPEC
- Discussion of Approach
 - DoD and NASA
- Introduction by Focus Area Leads
- General Discussion
- Morning Session: Leads-facilitated discussions with prepared questions
 - Traceability and Reporting (DoD-DPAP/SCI)
 - Standards (DoD-IP/NASA)
 - Procurement (DoD/OMB)
- Break
- Afternoon Session: (Repeat of morning session with different participants) Leads-facilitated discussions with prepared questions
- Factual Outbrief/Minutes* of Morning and Afternoon Sessions
- Next Steps
 - Collaboration, Training and Outreach Strategy (NASA)
 - Focus Area Development and Coordination

IIID Scorecard Update (Army) - 10 Jan 2011

Policy Implementation Status

- **Army Regulations Incorporating IIID**
 - **AR 70-1 “Army Acquisition Policy”** (release planned by 2Q FY11)
 - **AR 750-1 “Army Maintenance Policy”** (adjudicating comments)
 - **AR 710-2 “Army Supply Policy”** (release planned by 4Q FY11)
- **US Army Materiel Command (USAMC) IIID Implementation Plan** (released Nov 2010)
- **Installation Management Command IIID Implementation Plan** (under Army Staff review)
- **Draft Policy Memorandum “Legacy Data Plate Marking”** (release planned 2Q FY11)
- **Legacy Marking Guide** (release planned 4Q FY11)
- **Resource Formulation Guidance for POM 12-17**
- **Implementing IIID Business Processes in ERP Environment**
 - Modeling major IIID impacts in ERPs
 - Identifying gaps and redundancies (materiel, technical, policy and business process requirements)

Contract Compliance Rate

- **DFARS 252.211-7003 (IIID clause)**
 - 4QFY10 94% of Contracts that met IIID criteria included this clause
 - Compliance is Up from 93% in 3QFY10
- **DFARS 252.211-7007 (GFP)**
 - 4QFY10 16% of Contracts where GFP is provided included this clause
 - Compliance is Up from 15% in 3QFY10

Opportunities &

Challenges

- **USAMC Marking Management Pilot**
 - Workgroup established 01 Dec 2010
 - Tests integration of Enterprise Software Solution
 - Leverages geographically based marking management
 - Pilot kick-off in US Army Europe (USAEUR) planned 2Q FY11
- **Challenges:**
 - Developing IIID business processes
 - Acquiring, fielding and supporting AIT Infrastructure
 - End-to-End use of IIID throughout the Army Enterprise
 - Developing automated tools to

Issues & Concerns

- IIID requirement should be in Capabilities Documents (Include IIID in CJCSI 3170.01 & 6212.01)
- DCMA’s ability to monitor compliance for new items
- AIT and AIS readiness to “use” IIID

IUID Scorecard Update (USAF) - 10 Jan 2011

• Policy Publication Status

- **•AFPD 63-1/20-1: Acquisition and Sustainment Life Cycle Management**
 - Published 3 April 2009
 - Implements DODD 4140.1, 4151.18, 5000.01
 - Revision Drafted; in Technical/Functional Coordination
 - Estimated Publication in Summer 20 11
- **•AFI 63-101: Acquisition and Sustainment Life Cycle Management**
 - Published 17 April 2009; last updated: 10 Oct 10
 - Implements : DODI 5000.02; DODM 4140.01; DODD 8320.03; DODI 8320.04; DODI 4151.19
 - Complete rewrite in progress -Draft update:
 - Incorporates OSD Policy Memos: MDAP Tooling , GFP, and CAP
 - Aligns IUID process flows to SEP processing
 - Anticipated guidance: Technical Document s, JLB, and FMS
 - Estimated Publication in Summer 2011
- **•AFPAM 63-128: Acquisition and Sustainment Life Cycle Management**
 - Published 5 October 2009
 - Complements AFI 63-101 with detailed guidance
 - Draft updates align with AFI 63-101 and AFI 63-1201 SEP Processes
 - Estimated Publication in Summer 2011
- **•AFI 63-131, Modification Program Management**
 - Published 6 November 2009
 - Used with AFI 63-101 & AFPAM 63-128 IUID Policy on Modifications
 - Draft Revision in Technical Functional Coordination
 - Estimated Publication in Summer 2011
- **•AFI 20-110, Nuclear Weapons-Related Materiel Management**
 - Published 20 August 2009
 - AFI Revision in mandatory coordination, anticipate publishing in Feb 11
- **•AFI 63-1201: Life Cycle Systems Engineering, dated 23 Jul 2007**
 - Being revised as AFI 62-101, Systems Engineering
 - Estimated revision publication date Dec 2011
 - SEP policy revisions supplement AFI 63-101 detailed IUID guidance

•Contract Compliance Rate

- **•DFARS 252.211-7003 (IUID clause)**
 - 4QFY10 86% of Contracts that met IUID criteria included this clause
 - Compliance is up from 54% in 2QFY10
- **•DFARS 252.211-7007 (GFP)**
 - 4QFY10 60% of Contracts where GFP is provided included this clause
 - Initial Baseline Report

•Opportunities & Challenges

- **•IUID Implementation planning--legacy assets**
 - Integrate into a SEP review /approval process flow
 - Maximizing opportunistic marking of prioritized assets
 - ECSS MSC AIDC IPT with AF Enterprise Resource Planning (ERP) System to ensure IUID synchronized with ERP rollout

•Issues & Concerns

- **•Standardized FMS Exemptions**
- **•Pending Guidance**
- **•ADPE**

IUID Scorecard Update (DON) - 10 Jan 2011

Service/Agency/Functional Policy Implementation Status

- **Directive/Instruction**
 - DON IUID Implementation Strategy draft (adjudicating comments)
 - DON Marking Guide (released December 2010)
 - PEO LMW NOTE 4105, Item Unique Identification (IUID) Implementation Guidance and IUID Plan Template (released 9 Dec 2010)
 - Naval Shipyard Plant Equipment Corporate Policy for IUID (draft)
- **Program and Budget Guidance**
 - Developed POM 12 Issue Paper for enablement of Business Systems (resource sponsor rejected)
 - Developing DON IUID AIS implementation roadmap based on functional areas of greatest benefits (in conjunction with resource sponsors)
 - USMC developing Capability Development Document for IUID as a POR
- **Contracting Direction**
 - PEDRP/PQDR is IUID enabled for all services, auto populates based IUID interface with Registry to capture delivered item deficiencies
 - "Should Cost Model" developed for Independent Government Cost Estimates
- **Infrastructure - AIT/AIS**
 - DASN is working with US Fleet Forces Command (US FFC) and AIT program office to standardize handheld scanner for shore establishments and USFFC
 - US FFC funded to equip fleet with scanners and software to complete legacy marking in 3 years, and start using IUID immediately
 - NAVSUP purchase of 2,000+ scanners, in support of Navy ERP rollout
 - Shipyards/Depot developed plan for IUID compliance of Plant Property Equipment
 - Developed a standardized approach to accelerate IUID AIS enablement in support of financial auditability (DASN FMO funded, in progress)
 - Progress made on GCSS-MC plan for compliance. USMC readiness AIS (MERIT) and major logistics repository (MDR) will be IUID compliant by June 2011.
- **Communication and Outreach**
 - Published quarterly DON IUID Journal
 - Sponsored DON IUID Enterprise Training Symposium (DIETS4), 225 participants Jan 11-13, 2011 (DIETS3 also 225 participants)
 - BGen Simmons, USMC, to be keynote speaker at UID Forum in March 2011

Contract Compliance Rate

- **DFARS 252.211-7003 (IUID clause)**
 - 2QFY10 96% of Contracts that met IUID criteria included this clause
- **DFARS 252.211-7007 (GFP)**
 - Contract monitoring for GFP n/a

Opportunities & Challenges

- **Compliance**
 - Developed Low Cost Alternative for IUID enablement of Business Systems (resource sponsor considering)
 - IUID - Field Receipt & Acceptance demonstrated in pilot for WAWF, meeting all OSD requirements
 - USMC Automated Armory pilot to be implemented in several deployed units with II MEF deployment
- **Metrics**
 - Monitoring Program Legacy Item Get Well Plans for Class VII items (31 December 2010)
- **Resources**
 - Resourcing of Supply and Maintenance systems will be addressed after the Navy Logistics Solution Analysis of Alternatives is completed. This will provide the logistics AIS roadmap that determines which legacy AISs will be retained and integrated, and should have IUID enabled, with the N40 caveat if a business case is made for IUID enablement. Earliest opportunity is POM 14.

Issues & Concerns

- Contract Clause Compliance - Contracting Officers are circumventing the intent of the DFAR clauses. Examples are PEO CARRIER CVN 21, 78 Class: SUPSHIP MSMO & CARRIER Overhaul/Repair; PEO SUBS, AN/WLR-8 and AN/BRD-7 ESM; and PEO SUB VIRGINIA CL
- DASN is working with the Deputy Under Secretary for Business Transformation to address business systems that have an overdue IRB/DON IUID Condition. Efforts are underway to develop a better way to achieve the desired outcome, thus obtaining commitment from the resource sponsors to comply with existing policy.

IUID Scorecard Update (DLA) - 10 Jan 2011

Policy Publication Status

- **DFARS 252.211-7003 (IUID clause) implemented in contract writing systems for use when IUID technical requirements are identified by customer**
 - Technical Quality Memo (Q- Tip 2009-06) provides direction to product specialist for inclusion of IUID requirements in item descriptions
 - Upgrade of DLA Form 339 (June 2009) to include a drop down menu that addresses the IUID marking requirement which provides the user to conduct searches based upon the IUID requirement

Issues & Concerns

- Risk of marking items without technical review/requirements
- Verification of IUID marking on receipt
- The marking of legacy items impact on the distribution operations and the cost to do this work
- Contracting with dealers and distributors when IUID marking applies

Contract Compliance Rate

- **DFARS 252.211-7003 (IUID clause)**
 - Implementation in contracts for items where IUID marking is required.
 - Acquisition Policy is mandating compliance per the DFARS clause and directives.**
 - Automated buys valued up to the SAT currently include the clause.

Opportunities & Challenges

- **IUID Implementation for Items that do not require engineering analysis - capital equipment**
 - Marking plan complete
 - Data labeling equipment purchased
 - Projected completion date is Aug 2012
 - **IUID implementation for the Marines**
 - Establishing the list of NSNs that require IUID marking
 - Original list of 88,00 NSNs that the Marines have design authority for has been scrubbed and 1,855 NSNs will require IUID marking
 - 40 NSNs are already being marked by the Marines
 - 646 NSNs are Non-Critical and can be marked with labels
 - 312 NSNs have a tech data package
 - Marines will provide DLA with an official documentation listing what NSNs require IUID marking

IUID Scorecard Update (SOCOM) ~~10 Jan 2011~~ 10 Jan 2011

Policy Publication Status

- **SOCOM Directive 70-1 (Acquisition Management System Policy) March 2010**
 - Directs Implementation Plan
 - Directs DFARS Clause
 - Register pedigree data
- **SOCOM Directive 70-2 (Item Unique Identification)**
 - Original version dated Jan 08
 - Draft Updated Version in staffing
- **SOCOM Directive 700-2 (MFP-11 Funded Asset Visibility and Accountability) July 2008**
 - Reinforces IUID requirements for PM 's

• **Special Operations Forces Support Activity (SOFSa) IUID Marking Lab - Lexington, KY**

- Lab has produced 266K IUID marks (2005-10)
- Portable lab produced over 6,000 marks
- **SOCOM IUID Database Initiative**
 - Collect Metrics/Interface with DOD Registry
- **Ops Tempo - Limits access to mark legacy assets**
- **Funding Challenges**
 - Insufficient funding to support a HQ USSOCOM oversight capability
 - Component commands lack funding to mark non-program of record assets

Contract Compliance Rate

- **DFARS 252.211-7003 (IUID clause)**
 - Metrics collected quarterly
 - 321 of 332 contracts DFARS compliant
 - Compliance 96% in 4th Qtr 10
- **IUID Implementation Plan Review**
 - 71 programs reviewed
 - 58 programs have current plans (82%)

Issues & Concerns

- **DOD Registry - Unable to sort DoD registry to only identify SOCOM specific assets**
- **Inconsistent UII's constructs by OEMs - causes duplicative marking by SOFSa and/or components.**

Backup

GFM DI Problem Statement

We need Global Force Management Data

- Current Unit Locations
- “Event” data
- Operational Availability
- Total US Inventory
- Historical archive
- Timely, reliable, and authoritative

**What forces do I have?
Where are the forces today?
What residual capability exists?**

How do I manage forces, manpower, & equipment from acquisition to end of service?

What happens if...?

Department information technology systems:

- 1. Developed separate force structure representations for different domains**
- 2. Designed to source and track forces at a higher level than we currently execute**

Leadership Guidance

NEED GFM DI

- **“To support Global Force Management, the CJCS will develop...a joint hierarchical way to organize force structure data for integration across Service lines.”** – SPG, Mar 04

PLAN GFM DI

- **“The CJCS with USD (P&R) will provide the SecDef a plan to make force structure authorization data visible and accessible by Sep 07 and address the resources to reach full operational capability by Oct 09”** – JPG VII, Jun 06

USE GFM DI

- **“Only force structure data authorized under this Instruction [GFM DI data] is used for any force structure representation”** – DoDI 8260.03, Organizational Force Structure Construct for GFM, Aug 06

FUND GFM DI

- **“Services fund and complete GFM DI force structure authorization data by the end of FY 08”** – Program Decision Memorandum III, Dec 06
- **GFM DI Implementation Plan briefed to DAWG 9 Mar 07, DepSecDef approved 26 Mar 07** – update DAWG Fall 07 (JS, OSD, all Services planned to document to the billet level)
- **Capability Development Document for GFM DI Increment 1** - JROCM signed 28 Jan 08

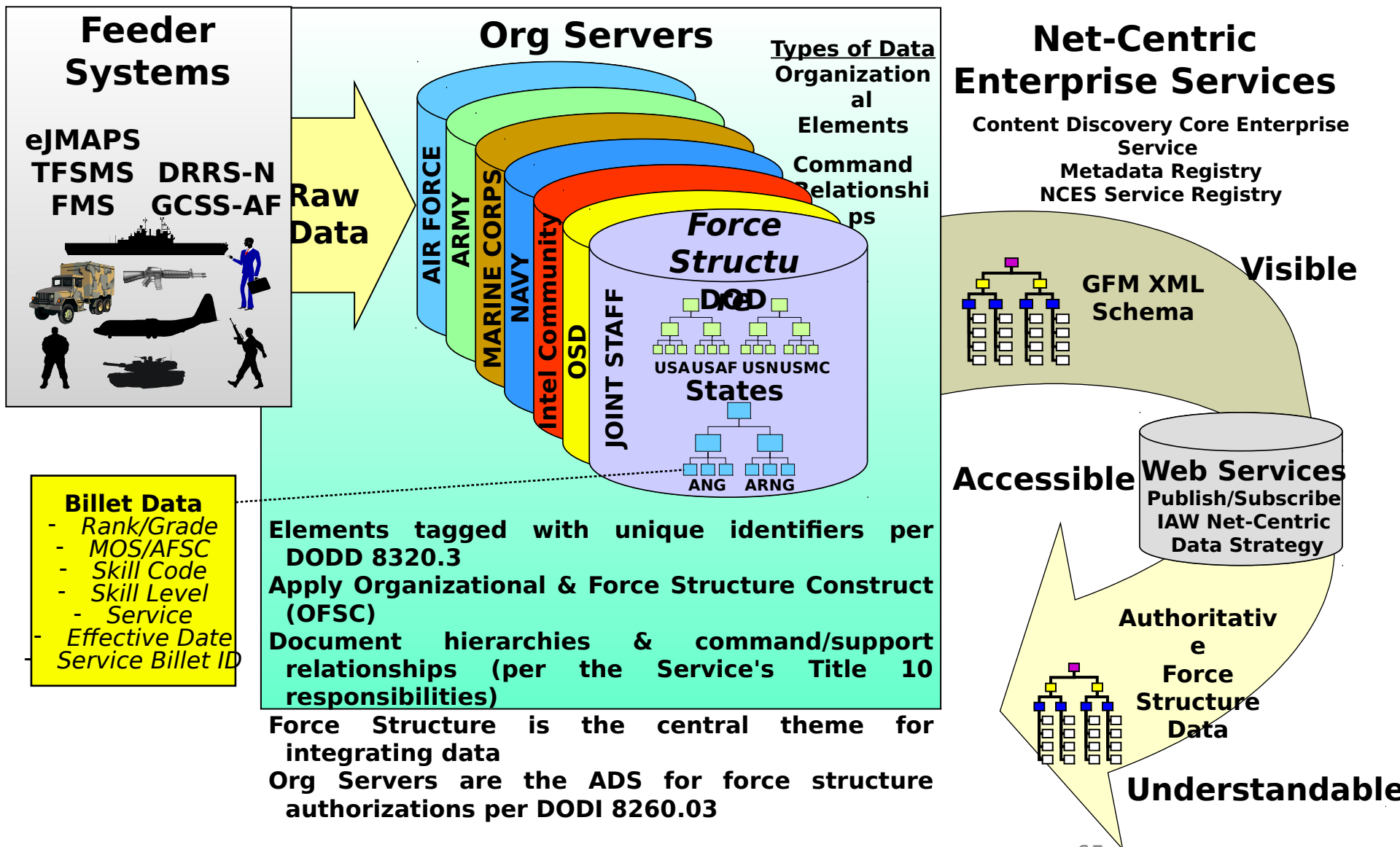
IMPLEMENT GFM DI

- **Provide DepSecDef with the funding implications of GFM DI Next Steps across the FYDP** – RMD 700, Dec 09

IMPLEMENT GFM DI Next Steps

It is DoD policy that all relevant Department systems use authoritative GFM DI force structure data as central theme for integrating data throughout DoD

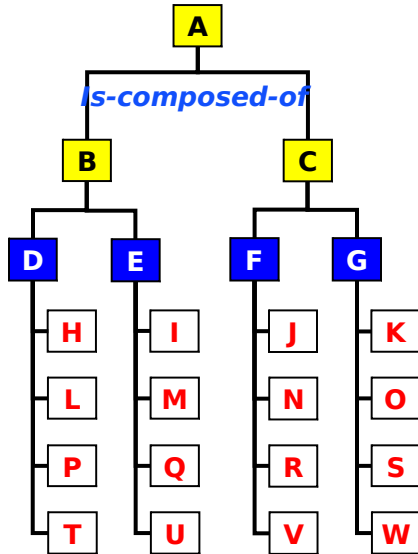
Task 1: Org Servers



OFSC Basics: Command Structure

The Fundamental Tree Structure of the OFSC

Command Structure



Principle:
Stable Nodes,
Dynamic Links

Command Structure: ***“The organizational hierarchy through which command is exercised.”***

A command structure is predicated upon command authority, or the concept of designated leadership authority. This is based on the military premise that anytime people are present, someone is in charge.

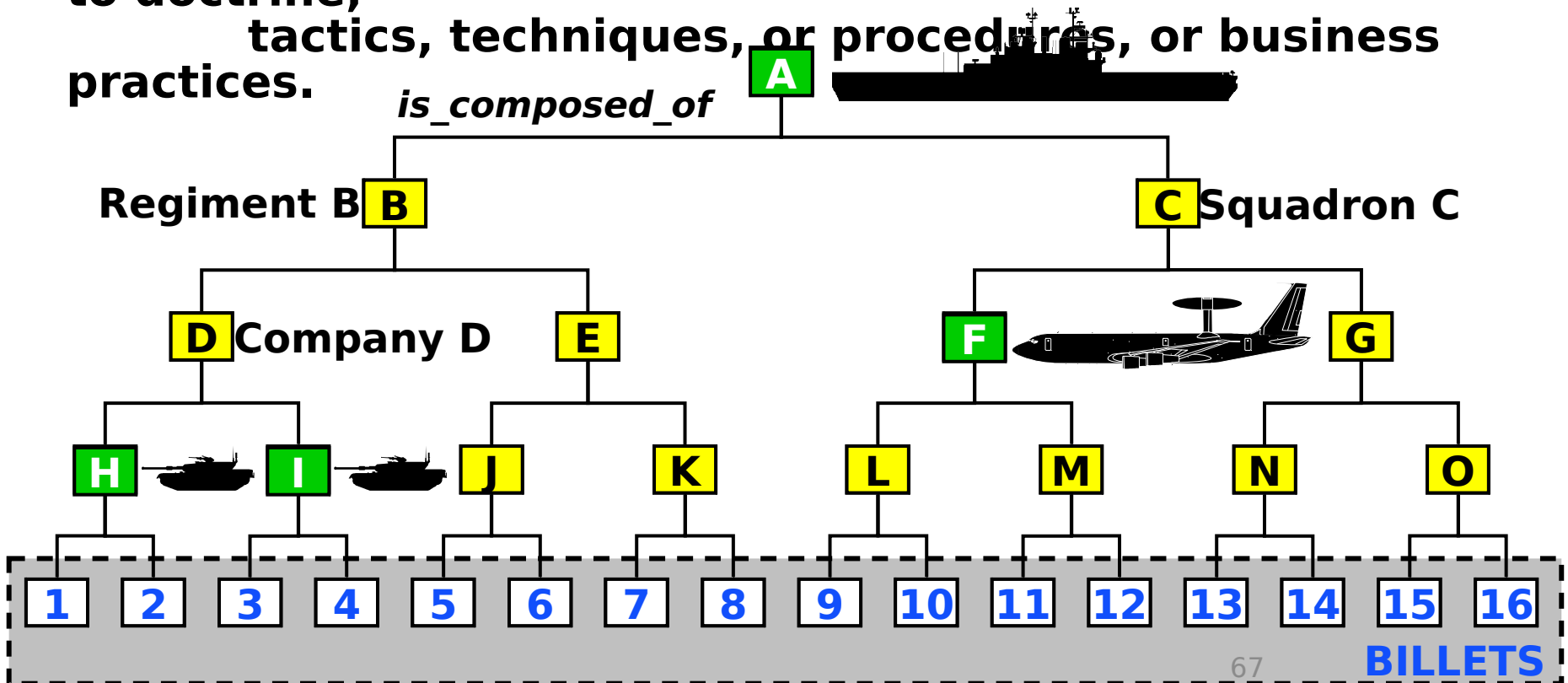
Formally, a command structure is a set of composition associations that connect together any type of OE [doctrinal, crews, or billets] and whose purpose is to denote aggregation due to command authority (but not limited to formal “command” - i.e., it extends to any level of leadership).

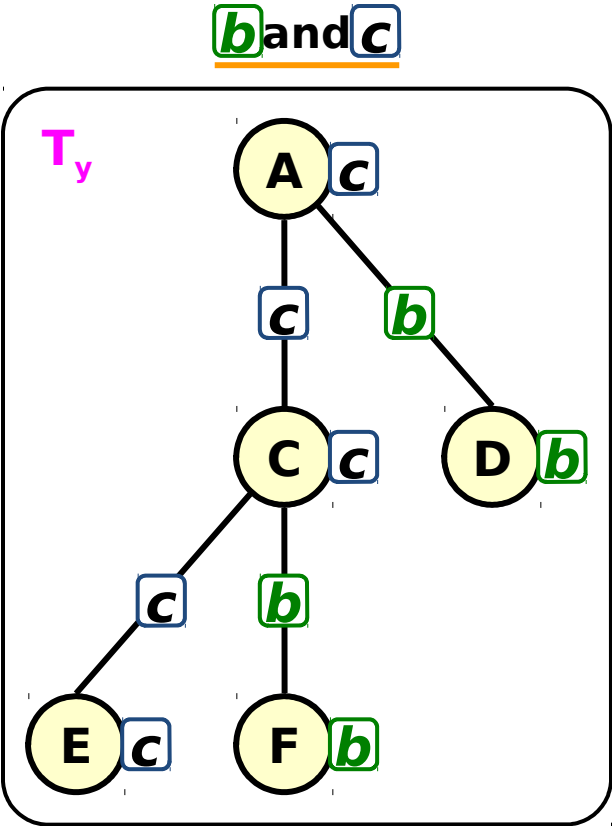
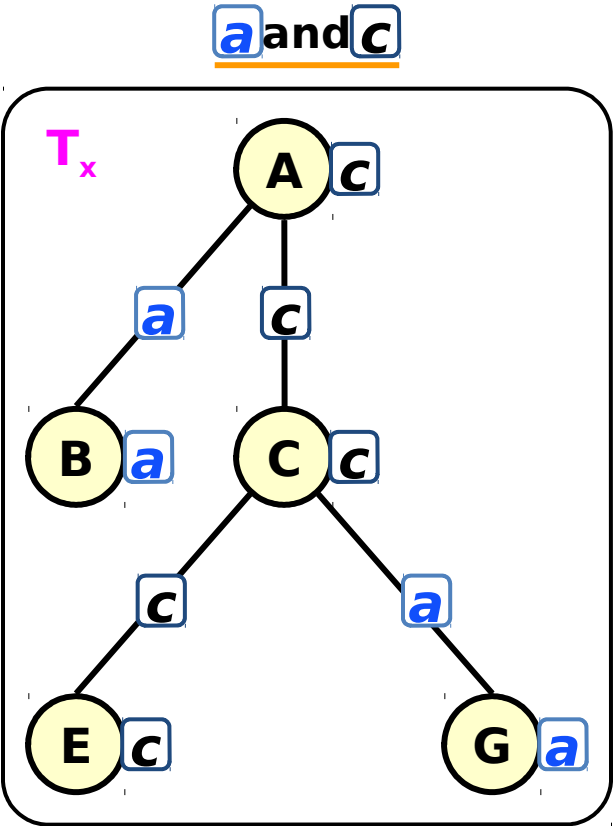
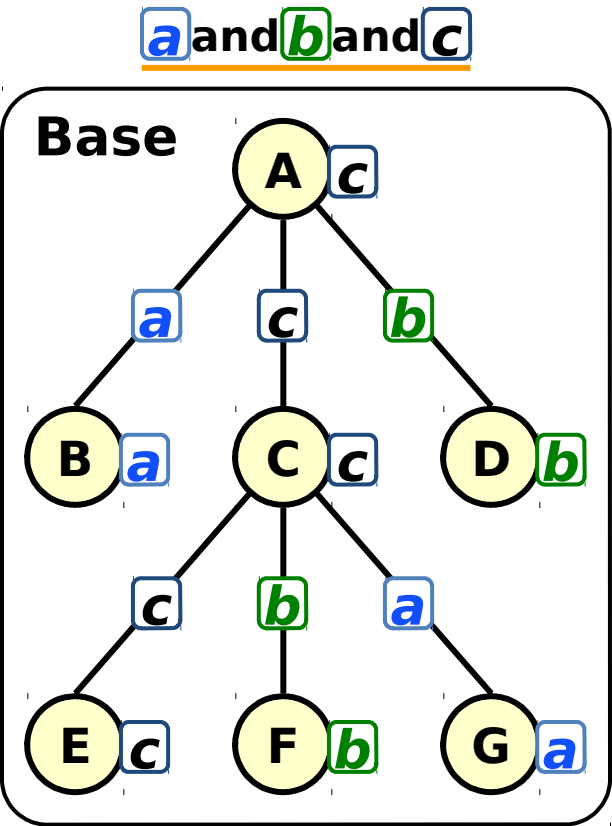
Billets can not be decomposed into other

OFSC Basics:

Organization Elements (OEs) & C2 Relationships

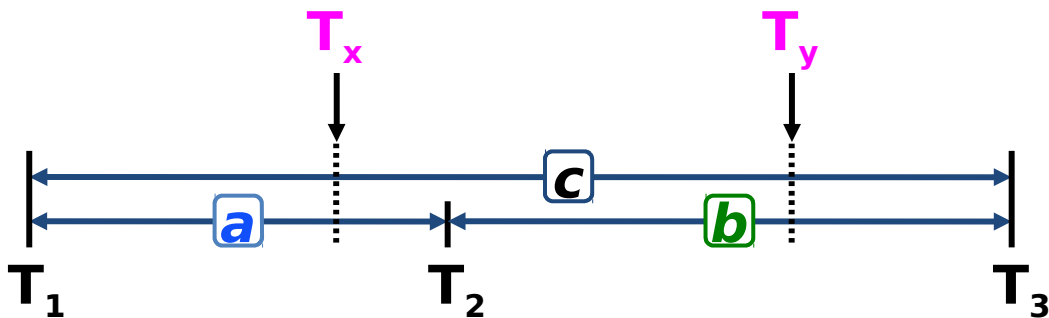
- **Billet:** An OE with a (planned) 1:1 correspondence with a person
- **Crew:** An OE with a 1:1 correspondence with a platform or system that requires operation by one or more persons
- **Doctrinal:** An OE that serves as an aggregation point due to doctrine, tactics, techniques, or procedures, or business practices.





Add Labels to Nodes & Links Tree Filtered on a and c

Tree Filtered on b and c



Use Time Intervals as Labels

T_1 T_x T_2 T_y T_3

Proposed Definitions for UID Items

- **Standard Intensity**

- The owner system does not have visibility into the exact location of a particular UII, but the local storage system does and can locate it if queried. Storage activities receive new procurements, recording UII(s) for reporting UII acceptance discrepancies. Storage activities receive, store, and ship by UII, but are not required to regularly perform physical inventory by UII or report changes in status/condition/location to the owner system. Mismatches identified by receiving activities must be reported under Discrepancy Report business rules, and corrective action taken where appropriate.

- **High Intensity**

- The owner system will have worldwide visibility into the exact location of a particular UII at all times and can locate it if queried. Storage activity and owner records must be synchronized and differences in their records be immediately reconciled by UII. Storage activities receive new procurements, recording UII(s) reporting UII acceptance discrepancies. Storage activities receive, store, ship, and perform physical inventories by UII, and report changes in status/condition/location to the owner system by UII.

Identifying IUID items - Proposed IUID “Flags”

- Assigned to each NSN requiring SIM using the UII, as determined by the National Inventory Control Point (NICP)
- Indicates to all DoD systems, and practitioners using these systems, the level of management intensity required for the individual items within each IUID-eligible NSN
 - *Standard-intensity serialized management by UII* - managed by UII in accountable records
 - *High-intensity serialized management by UII* - managed by UII in accountable records and owner records
- Interim IUID “Flags” may be necessary...
 - Applies to NSNs that require serial management by IUID but on which legacy assets on the NSN have not yet been IUID-marked
 - Enables the supply system to manage the item by the NSN with the legacy serial number in the interim until all legacy assets on the NSN have been marked with a UII
 - Once the legacy assets on the NSN have been marked with a UII, the flag will be updated to full serialized item management using the UII

Proposed IUID Flags - Detail

<u>CODE</u>	<u>EXPLANATION</u>
1A	Proposed Standard-intensity serialized management by UII (INTERIM). Applies to NSNs that require serial management by IUID but on which legacy assets on the NSN have not yet been IUID-marked. This flag enables the supply system to manage the item by the NSN in the interim until legacy assets on the NSN have been marked with a UII and contracts have been updated to include the IUID clause. Once the legacy assets on the NSN have been marked with a UII, the flag will be updated to serialized item management by UII using the Standard-intensity flag below.
1B	Proposed High-intensity serialized management by UII (INTERIM). Applies to NSNs that require serial management by IUID but on which legacy assets on the NSN have not yet been IUID-marked. This flag enables the supply system to manage the item by the NSN in the interim until legacy assets on the NSN have been marked with a UII and contracts have been updated to include the IUID clause. Once the legacy assets on the NSN have been marked with a UII, the flag will be updated to full serialized item management by UII using the High-intensity flag below.
2A	Standard-intensity serialized management by UII. The owner system does not have visibility into the exact location of a particular UII, but the local storage system does and can locate it if queried. Storage activities receive new procurements, recording UII(s) for reporting UII acceptance discrepancies. Storage activities receive, store, and ship by UII, but are not required to regularly perform physical inventory by UII or report changes in status/condition/location to the owner system. Mismatches identified by receiving activities must be reported under Discrepancy Report business rules, and corrective action taken where appropriate.
2B	High-intensity serialized management by UII. The owner system will have worldwide visibility into the exact location of a particular UII at all times and can locate it if queried. Storage activity and owner records must be synchronized and differences in their records be immediately reconciled by UII. Storage activities receive new procurements, recording UII(s) reporting UII acceptance discrepancies. Storage activities receive, store, ship, and perform physical inventories by UII, and report changes in status/condition/location to the owner system by UII.